#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT) QP CODE: 3103, MICROBIOLOGY (RS -1 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### MAX. MARKS: 90

#### I.LONG ESSAY - ANSWER ANY TWO

- 1. Enumerate organisms causing meningitis. Add a note on lab diagnosis of bacterial meningitis.
- 2. Describe the pathogenesis and lab diagnosis of enteric fever.
- 3. Define and classify hypersensitivity reactions and add a note on type I hypersensitivity.

#### II. SHORT NOTES (ANY TEN)

- 4. Immunity.
- 5. Candida.
- 6. Hepatitis B virus.
- 7. Hospital acquired infections.
- 8. ASLO test.
- 9. Lifecycle of Ascaris lumbricoides.
- 10. VDRL test.
- 11. Botulinism.
- 12. Coagulase test.
- 13. RA test.
- 14. BCG vaccine.
- 15. Urinary tract infections.

#### III. SHORT ANSWERS.

- 16. Innate immunity.
- 17. Antibiotic susceptibility test.
- 18. Aldehydes.
- 19. Indicator media.
- 20. Uses of chocolate agar.
- 21. Name two capsulated bacteria.
- 22. Name two anaerobic bacteria.
- 23. Montoux intradermal test.
- 24. Name two plasmodium species
- **25.** Universal precautions.

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10x2 = 20

2x10 = 20

10X5 = 50

KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATIO	ON (REGULATION) AUTHORITY
PARAMEDICAL BOARD, BE	NGALURU
SUPPLEMENTARY EXAMINATION	N, JANUARY 2020
III YEAR DIPLOMA IN MEDICAL LABORATORY	Y TECHNOLOGY (DMLT)
<b>QP CODE: 6105, MICROBIOLOC</b>	GY (RS -2 SCHEME)
(WRITE IN GREEN ANSW	VER BOOK)
TIME: 3 HRS	MAX. MARKS: 100
I. SHORT NOTES- ANSWER ANY EIGHT	8X5=40

- 1. Laboratory diagnosis of Entamoeba histolytica.
- 2. Pathogenesis of Vibrio cholera.
- 3. Life cycle of Ascaris lumbricoides.
- 4. Bacterial cell wall.
- 5. Widal test.
- 6. Serological markers of Hepatitis B virus infection.
- 7. Laboratory diagnosis of Candida infection.
- 8. Classification of streptococci.
- 9. Laboratory diagnosis of tuberculosis.
- 10. Antibiotic susceptibility testing.

#### **II.SHORT ANSWERS**

- 11. Tyndallisation.
- 12. Immunisation of tetanus
- 13. Infections caused by Staphylococcus aureus.
- 14. Z-N staining.
- 15. Kirby-bauer disc diffusion test.
- 16. Coagulase test.
- 17. India ink preparation.
- 18. Lepromin test
- 19. Name any three species of Aspergillus.
- 20. Hepatitis B vaccine.
- 21. Modes of transmission of HIV infection.
- 22. Hydatid cyst.
- 23. BCG vaccine
- 24. Sterilisation controls for autoclave.
- 25. ELISA test.
- 26. ASLO test.
- 27. Universal precautions.
- 28. Species of Plasmodium.
- 29. Elek's gel precipitation.
- 30. Draw a neat labelled diagram of egg of Enterobius vermicularis.

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20×3=60

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI) QP CODE: 3113, COMMUNITY MEDICINE, PAPER-III (RS -1 SCHEME) (WRITE IN GREEN ANSWER BOOK)

## TIME: 3 HRS

# MAX. MARKS: 90

#### I.LONG ESSAY - ANSWER ANY <u>TWO</u>

- 1. Enumerate the occupational diseases. Write briefly about the prevention and control measures for it.
- 2. Enumerate various levels of Health care system in India. Describe community health center (CHC) in detail.
- 3. Enumerate sources of health information systems. Discuss census.

### **II. SHORT NOTES - ANSWER ANY TEN**

- 4. Hospital waste management
- 5. Principles of health education
- 6. Permanent family planning methods
- 7. Planning cycle
- 8. Food poisoning
- 9. Human reservoir
- 10. Uses of epidemiology
- 11. Family physician. .
- 12. Color coding of Biomedical waste
- 13. First Aid in animal bite
- 14. Importance of screening.
- 15. Role of ASHA

#### **III. WRITE SHORT ANSWERS**

- 16. Two features of sanitary well
- 17. Two methods of purification of water at household level.
- 18. Chlorine demand
- 19. Two measures to reduce air pollution
- 20. Balanced diet
- 21. Two example of food adulteration
- 22. Incubation period
- 23. Two roles of health inspector in PHC
- 24. Write two public health acts
- 25. Give two example of audio visual aid.

**2X10=20** n and

10 x 2 =20

 $10 \ge 5 = 50$ 

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY

#### PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN HEALTH INSPECTOR (DHI) QP CODE: 6115, COMMUNITY MEDICINE, PAPER-III (RS -2 SCHEME)

#### (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

MAX. MARKS: 100

8x5=40

I.SHORT NOTES- ANSWER ANY <u>EIGHT</u>

- 1. Classify occupational diseases with examples
- 2. ESI Act
- 3. What are the advantages of periodic medical examinations in occupational health?
- 4. Concept of triage in disaster management
- 5. Elements of primary health care.
- 6. Job description of multipurpose health worker (female)
- 7. UNICEF
- 8. What are the health hazards of health care waste
- 9. Stages of planning cycle.
- 10. Functions of World Health Organization.

#### **II. SHORT ANSWERS.**

- 11.Primary health center
- 12.FAO
- 13.ASHA
- 14.Sickness absenteeism
- 15.Asbestosis
- 16.Disaster mitigation
- 17.Ergonomics
- 18.Panchayati Raj
- 19.CARE
- 20.Write briefly about segregation of bio-medical waste in hospitals.
- 21.Role of NGO's in health care
- 22.World Health Day
- 23. Appropriate technology
- 24.Central health council
- 25.Man-made disasters
- 26.Millennium development goals
- 27.Voluntary health agencies
- 28.Occupational dermatitis
- 29.Cost benefit analysis
- **30.AYUSH**

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20x3=60

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY **TECHNOLOGY (DMXT)** QP CODE: 3123, RADIOGRAPHY INCLUDING NEWER IMAGING **TECHNOLOGY (RS -1 SCHEME)** (WRITE IN GREEN ANSWER BOOK) MAX. MARKS: 90

#### TIME: 3 HRS

#### I. LONG ESSAY - ANSWER ANY TWO

- 1) Describe about physics of mammography. Draw a diagram of an X-ray tube.
- 2) Explain the generations of CT Scanners? Add a note on non ionic CT contrast media.
- 3) Describe principles of MRI. Explain about different coils used in MRI?

#### **II. SHORT NOTES- ANSWER ANY TEN**

- 4) Macro radiography
- 5) Foreign body localization in radiography
- 6) Barium enema
- 7) High voltage radiography
- 8) Zeroradiography
- 9) Full wave rectifier
- 10)Use of phosphorus in intensifying screen
- 11) High resolution Computed tomography (HRCT) temporal bone
- 12)Hounsfield unit
- 13) Thimble ionization chamber
- 14) Testing an X -ray tube for correct exposure
- 15) Radiation survey meter

#### **III. SHORT ANSWERS**

- 16) As Low As Reasonably Achievable (ALARA)
- 17) Aluminium stopped wedge
- 18)Bronchography
- 19) Barium swallow
- 20)Soft tissue radiography
- 21)Potentiometer
- 22)T1 weighted MRI
- 23)Radiofrequency coils
- 24)Precession frequency
- 25) Characteristics of a semiconductor

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 $10 \ge 2 = 20$ 

 $2 \times 10 = 20$ 

 $10 \times 5 = 50$ 

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020

#### III YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT) QP CODE: 6125, RADIOGRAPHIC PHOTOGRAPHY AND IMAGING PROCESSING (RS -2 SCHEME)

(WRITE IN GREEN ANSWER BOOK)

## TIME: 3 HRS

MAX. MARKS: 100

 $8 \times 5 = 40$ 

# I. SHORT NOTES- ANSWER ANY <u>EIGHT</u>

- 1. Points to be considered while planning a dark room
- 2. List out the different methods of film processing .
- 3. Write notes on different types of film faults and how to prevent them
- 4. Digital mammography
- 5. Discuss various factors affecting the resolution of an image.
- 6. Working principle, technique and merits of digital radiography
- 7. Discuss the structure ,speed and uses of an intensifying screen
- 8. Discuss hangers, types of hangers and how to store hangers
- 9. Discuss photochemistry
- 10. Discuss factors affecting resolution ,choice of short focus.

## **II.SHORT ANSWERS**

- 11. Notes on film artifacts
- 12. Replenishment
- 13. Note on safe light
- 14. Exhausted processing solution
- 15. Types of X-ray films
- 16. Film graniness
- 17.Storage of radiographic film
- 18. Loading and unloading of cassette
- 19. Storage of film materials and radiographs
- 20. Define magnification , distortion and pneumbra
- 21. Use of phosphorus in intensifying screen
- 22. Note on primary radiological image ,latent image and visible image
- 23. What is MLC ?list the legal evidences provided by a MLC
- 24. Labelling and presentation of a radiography
- 25. Exhausted processing solution
- 26. Screen and nonscreen film
- 27. Note on dark room technique
- 28. Describe typical film characteristic
- 29. Fluroscence
- 30 .Factors affecting washing and drying

20X3=60

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY (DMRT) QP CODE: 3143, COMPUTER SCIENCE (RS -1 SCHEME)

#### TIME: 1.30 HRS

# MAX. MARKS:40

]	I. LONG ESSAY – ANSWER ANY ONE	1x10=10
	1. How many types of networking is there? Explain the minim	um 3
	networking in detail	
	2. What are the Uses of computers in Hospitals and in MRD?	
II.	SHORT NOTES - ANSWER ANY FOUR	4X5=20
	3. What's E-hospital software?	
	4. Explain all types of storage devices?	
	5. What is viruses and malwares? How to get rid of them?	
	6. Is it Computers helpful in Hospitals? How?	
	7. What's EMR? HIMS?	
III.	SHORT ANSWERS	5x2=10

8. Laptop
 9. HDD
 10. SERVER
 11. E-MAIL
 12. INTERNET

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#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN MEDICAL Q P Code 6145 RECORDS TECHNOLOGY (DMRT) (RS -2 SCHEME) TIME: 1.30 HRS MAX. MARKS:50

#### I SHORT NOTES, ANSWER ANY FOUR QUESTION $4 \times 5 = 20$

- 1. Which are all statistics prepared through computers in the Medical Record Department.
- 2. Brief the advantages of doing computerization in Medical Record Department.
- 3. Explain about the Software Applications.
- 4. Computers how it will useful in the Registration Counters.
- 5. Role of computers in the Medical Record Department.

#### II SHORT ANSWERS

- 6. Define Printers and its uses.
- 7. Define Hard Disk and its uses.
- 8. What do you mean by RAM and its uses.
- 9. Write types of printers.
- 10. Define Scanner and mention its uses.
- 11. Define Hardware.
- 12. Define LAN and mention its uses.
- 13. Brief the difference between Printer and Scanner, \.
- 14. Name the three storage devices.
- 15. Define Internet.

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10 X 3= 30

#### PARAMEDICAL BOARD, BENGALURU **SUPPLEMENTARY EXAMIANTION, JANUARY 2020** FIRST YEAR CERTIFICATE COURSES (RS-1 SCHEME)

#### **Time: 1.30 HRS**

#### Max Marks:45

#### **QP CODE: 1103 BIOLOGY**

#### I. LONG ESSAY – ANSWER ANY ONE

- 1) Explain Watson and Crick model of DNA with labelled structure
- 2) Draw a neat labelled diagram of Nephron and describe the formation of urine

#### WRITE SHORT NOTES ON ANY FIVE 5 X 5 = 25 II.

- 3) Placenta and its functions
- 4) Difference between bone and cartilage
- 5) Functions of Blood
- 6) Structure of Neuron
- 7) Structure of Graffian follicle
- 8) Applications of Genetic engineering
- 9) Kreb's Cycle

#### III. WRITE SHORT ANSWERS

- 10) Mention four causes of cancer
- 11) Mitochondria
- 12) Name Four Viral diseases
- 13) Heart chambers
- Mention two types of cell division 14)

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5 X 2 =10

1 X 10 =10

#### PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMIANTION, JANUARY 2020 FIRST YEAR DIPLOMA COURSES

(RS-2 SCHEME)

#### Time: 3.00HRS

#### Max Marks:100

#### **QP CODE: 4105, BIOLOGY**

- I. SHORT NOTES Answer any EIGHT questions 8 X 5=40
- 1. Explain the respiration process in Human beings
- 2. Draw a labelled diagram of Nephron
- 3. Describe the process of digestion of carbohydrates in the mouth, stomach and intestine
- 4. Explain the mechanism of working of human heart
- 5. Mention the steps of recombinant DNA technology
- 6. Eukaryotic animal cell structure
- 7. Explain Watson and Crick model of DNA
- 8. Structure of human eye

#### 9. Match the following

- a) Mitochondria i) DNA
- b) Ribosomes ii) Digestive enzymes
- c) Plasma membrane iii) Protein synthesis
- d) Nucleus iv) Lipid bilayer
- e) Lysosomes v) ATP

#### **10. Multiple choice questions**

- A) Nephron is the functional unit of i) Heart ii) Liver iii) Lungs iv) Kidney
  - B) Salivary amylase hydrolyses i) Proteins into amino acids ii) Fats into fatty acids and glycerol iii) Starch into sugars iv) Nucleotides into bases
- C) In which part of alimentary canal food is finally digested

i) Stomach ii) Mouth cavity iii) Large intestine iv) Small intestine

- D) Blood group which has no antigens is i) A ii) B iii) AB iv) O
- E) Taste buds are present in i) Liver ii) Kidney iii) Tongue iv) Ear

#### II. SHORT ANSWERS 20x3 =60

- 11) Explain the last process of human digestive system
- 12) List the functions of HCl in digestion
- 13) Structure of Graafian follicle
- 14) Functions of Placenta
- 15) Mention the antigens and antibodies present in each human blood group.
- 16) Name three diseases caused by bacteria
- 17) Tidal volume
- 18) Fertilization
- 19) Mention three functions of blood
- 20) Significance of Mitosis
- 21) Expand AIDS. Mention the preventive measures of AIDS
- 22) Functions of Liver
- 23) Mention the key features of Metaphase chromosomes
- 24) Blood vessels
- 25) Applications of DNA finger printing
- 26) Areolar tissue
- 27) Mention three parts of brain
- 28) Functions of Kidney
- 29) Mention the functions of Arteries and Veins
- 30) Functions of large intestine

#### PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMIANTION, JANUARY 2020 II YEAR DIPLOMAIN/III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE

#### TIME: 1.1/2 HRS.

#### MAX. MARKS: 45.

#### **QP CODE – 3183 (RS1)**

#### OPERATING ROOM TECHNIQUE, CHAIR SIDE ASSTS. & DENTAL MATERIALS, ETHICS & JURISPRUDENCE

#### I. LONG ESSAY 1X10=10 1. Describe various specialties in dentistry. WRITE SHORT NOTES II. 5x5=25 2. Medico legal issues in dental practice. 3. Sterilization and care of dental instruments. 4. Billing and accounting. 5. Dental ethics 1948. 6. Charting and recording. III. WRITE SHORT ANSWERS 5X2=10 7. Computers in dentistry. 8. Materials used for making impression. 9. Photography in dentistry.

- 10. Maintenance of records.
- 11. Material maintenance.

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#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT) QP CODE: 2104, PATHOLOGY (RS -1 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS I. LONG ESSAY: ANSWER ANY <u>TWO</u>

- 1. Mention different steps in tissue processing. Describe in detail about different fixatives used in histopathology with their advantages and disadvantages.
- 2. Describe the procedure and complications of plebotomy. Mention the various anticoagulants with their uses.
- 3. What is the composition of Leishman stain? Write a note on preparation and staining of a peripheral smear.

#### II. SHORT ESSAY: (ANSWER ANY TEN)

- 4. Dehydration in histopathology.
- 5. Quality control in haematology.
- 6. Grossing Technique in histopathology
- 7. Describe chemical tests for protein in urine.
- 8. Describe advantages and disadvantages of Sahli's haemoglobin estimation methods. Mention the normal range of haemoglobin levels in adults. (3+2)
- 9. Absolute eosinophilic count.
- 10. Describe the principle and procedure of Benedict's test.
- 11. Describe importance of differential leucocyte count.
- 12. Packed cell volume.
- 13. Manual tissue processing.
- 14. Reticulocyte count.
- 15. Microscopy of urine sample.

#### **III. SHORT ANSWER**

16. Mention two clearing agents used in histopathology.

- 17. Mention two causes of increased Erythrocyte sedimentation rate (ESR).
- 18. Mention red cell indices.
- 19. Mention stains used in cytology.
- 20. Mention four uses of EDTA anticoagulant.
- 21. Mention components of blood.
- 22. Mention the instruments used in haematology.
- 23. Mention different methods for haemoglobin estimation.
- 24. Mention uses of improved neubauer's chamber.
- 25. Mention preservatives used for urine samples

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10x2=20

10x5=50

MAX. MARKS: 90

2X10=20

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 **II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY** (DMLT)

**OP CODE: 5105, PATHOLOGY (RS -2 SCHEME)** (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### I. SHORT NOTES- ANSWER ANY EIGHT QUESTIONS 8X5=40

- 1. Describe in detail Semen analysis.
- 2. Write in detail about physical and microscopic examination of urine.
- 3. Use of Anticoagulants in different tests.
- 4. Pap stain procedure.
- 5. Preparation and staining procedure- Leishman stain.
- 6. Methods of Haemoglobin estimation.
- 7. Quality control in Haematology.
- 8. Sputum examination.
- 9. Tissue processing.
- 10. Automation in Haematology.

#### **II SHORT ANSWERS**

11. Dipstick method.

- 12. Preservation of urine sample.
- 13. Name six chemical tests for urine.
- 14. EDTA.
- 15. Different types of vacutainers.
- 16. WBC diluting fluid.
- 17. Reticulocyte.
- 18. MCV.
- 19. Blood grouping.
- 20. CSF examination.
- 21. Fixatives used in cytology.
- 22. Barr body.
- 23. Six equipments used in Histopathology.
- 24. Shorr stain.
- 25. Mounting agents.
- 26. Stains used in cytology
- 27. AEC count.
- 28. Decalcification.
- 29. ESR estimation.

#### 30. Ideal smear.

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20X3=60

**MAX. MARKS: 100** 

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DMLT) QP CODE: 2112(RS -1 SCHEME) COMMUNITY MEDICINE, PAPER-II (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### I. LONG ESSAY: ANSWER ANY TWO

- 1. Write causes of noise pollution. What are the effects of noise pollution?
- 2. Causes of under nutrition. How do you prevent under nutrition?
- 3. Write host and environmental factors of Hookworm infection. Add a note on its prevention

#### II. SHORT NOTES- ANSWER ANY TEN

- 4. Write about prevention of air pollution
- 5. Swimming pool sanitation
- 6. Write two chemicals causing hardness of water. What are the disadvantages of hardness of water?
- 7. Health hazards of solid waste.
- 8. Manure pits.
- 9. SulabhShauchalya.
- 10. What is Sewage? What are the health effects of improper disposal of sewage waste.
- 11. Bangalore method of composting.
- 12. What is Anemia? Write about prevention and treatment of anemia.
- 13. Methods of Pasteurization of milk.
- 14. Effects of Radiation.
- 15. Hygiene of Slaughter house.

#### III. SHORT ANSWERS.

- 16. Two examples for protective food.
- 17. Vitamin C rich foods.
- 18. Effects of Poor housing.
- 19. Two effects of Global warming.
- 20. Mention four water-borne diseases.
- 21. Enumerate calcium-rich food.
- 22. Nutritive value of Egg.
- 23. Two household methods of purification of drinking water
- 24. Mention four protein-rich foods.
- 25. Mention any four risk factors for cardio-vascular diseases.

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# 10X2=20

2X10=20

MAX. MARKS: 90

10X5=50

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI) QP CODE: 5113(RS -2 SCHEME) COMMUNITY MEDICINE, PAPER-II (WRITE IN GREEN ANSWER BOOK)

**MAX. MARKS: 100** 

8x5=40

- **I.SHORT NOTES- ANSWER ANYEIGHTQUESTIONS**8x51. Mention the disease transmitted by Anopheles. Discuss the Anopheles control
  - measures
  - 2. Mention the disease transmitted by Hard Tick. Discuss its control measures.
  - 3. Aedes Mosquito
  - 4. Housing Standards
  - 5. Sewage treatment
  - 6. Composting

TIME: 3 HRS

- 7. Horrocks Apparatus
- 8. Soakage Pit
- 9. Septic tank
- 10. Large scale Purification of Water

#### **II. SHORT ANSWERS**

- 11. Sanitary Barrier
- 12. Residual chlorine
- 13. Hazards of Indoor air pollution
- 14. Portable Water
- 15. Sand Fly
- 16. Rat Flea
- 17. Louse
- 18. Hard Tick
- 19. Space Spray
- 20. Solid Waste
- 21. Insecticide treated Bed nets
- 22. Gambusia
- 23. Paris Green
- 24. Disinfection of Well
- 25. Global Warming
- 26. Indicators of Air Pollution
- 27. Hazards of Noise Pollution
- 28. Housefly
- 29. DDT
- 30. Types of Ventilation

20x3=60

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY (DMXT) **OP CODE: 2123, PHYSIOLOGY (RS -1 SCHEME)** (WRITE IN BLUE ANSWER BOOK)

#### **TIME: 1.30 HRS**

#### LONG ESSAY - ANSWER ANY ONE I.

- 1) Explain the composition and functions of blood.
- 2) Describe Spermatogenesis and its Hormonal regulation.

#### II. SHORT NOTES - ANSWER ANY FIVE.

- 3) Composition and functions of Saliva.
- 4) Temporary family planning methods in males.
- 5) Explain the structure of a Nephron, with a neat diagram.
- 6) Draw a labelled diagram of normal ECG and Name the different intervals.
- 7) Classify Hypoxia and Explain Hypoxic hypoxia.
- 8) Functions of large intestine.
- 9) Explain the conducting system of heart.

#### III. SHORT ANSWERS

10)Write any two actions of Growth hormone.

- 11)Name any two body fluid compartments.
- 12) Write the normal values of 1) RBC count 2) Hemoglobin %.
- 13) Name any two hormones of Pancreas
- 14) Give the normal values for 1) Bleeding time and 2) Clotting time

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5x2=10

MAX. MARKS: 45 1x10=10

5x5 = 25

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT) QP CODE: 5124, PHYSIOLOGY (RS -2 SCHEME)

(WRITE IN BLUE ANSWER BOOK)

#### TIME: 1.30 HRS I. SHORT NOTES – ANSWER ANY <u>FOUR</u>

- 1. Define Active and Passive transport. Give one example of each
- 2. List the functions of Plasma Proteins
- 3. Give the composition and name THREE functions of Small Intestine juice
- 4. Write a brief note on Pulmonary Surfactant and its importance
- 5. Write FIVE actions of Cortisol hormone

#### III. WRITE SHORT ANSWERS

- 6. Name THREE types of muscle tissue. Where are they found?
- 7. Draw a neat labelled diagram of a NEURON
- 8. Define Blood Pressure. Give its normal value
- 9. Name the contraceptive methods that can be used by male
- 10. Name the errors of refraction of the eye
- 11. What is an Anti-coagulant? Give one example
- 12. Name THREE hormones secreted by Anterior Pituitary gland
- 13. Which are the two heart sounds? How are they produced?
- 14. Write the parts of a NEPHRON
- 15. Define Tidal volume. Give its normal value

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10 X 3 = 30

MAX. MARKS: 50

4x5=20

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY (DOTT) QP CODE: 2135, SECTION-A, ANATOMY (RS -1 SCHEME) (WRITE IN BLUE ANSWER BOOK)

#### TIME: 3 HRS

MAX. MARKS: 90

I. LONG ESSAY- ANSWER ANY <u>ONE</u>	$1 \times 10 = 10$
1. Name the bones of upper limb. Write briefly about humerus be	one.
2. Name the parts of gastrointestinal system. Write briefly about	stomach.
II. SHORT NOTES- ANSWER ANY FIVE	5 x 5 = 25
3. Skin	
4. Thyroid Gland	
5. Pituitary Gland	
6. Trachea	
7. Small Intestine	
8. Cerebellum	
IV. SHORT ANSWERS	$5 \ge 2 = 10$
9. Name the paranasal air sinuses	
10. Name the types of muscles	
11. Name types of cartilage	
12. Name any two muscles of lower limb	
13. Name any two veins of upper limb.	
QP CODE: 2136, SECTION-B, PHYSIOLOGY (RS 1	SCHEME)
(WRITE IN RED ANSWER BOOK)	0 01121(12)
I. LONG ESSAY- ANSWER ANY <u>ONE</u>	1x10 =10
1. Describe different modes of transport of oxygen in blood. What	at is Hypoxia?.
2. Describe the steps of clotting of blood. Add a note on Hemoph	nilia.
II. SHORT ESSAY- ANSWER ANY FIVE.	5x5=25
3. Functions of Insulin	
4. Functions of Neuron	
5. Draw a neat labeled diagram of Skin and list out Functions of	skin
6. Role of Parathyroid hormone in Calcium metabolism	
7. Differences between systemic and pulmonary circulation	
8. Composition and functions of pancreatic juice	
9. Functions of ovaries	
III. SHORT ANSWERS	5x2=10
10. Types of muscles	
11. Functions of Kidney	
12. What is Landsteiner's law of blood grouping	
13. Two functions of spleen	
14. Position of Heart	

\*\*\*\*\*\*

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY

#### PARAMEDICAL BOARD, BENGALURU

#### SUPPLEMENTARY EXAMINATION, JANUARY 2020

#### II YEAR DIPLOMA IN

#### OPERATION THEATRE & ANAESTHESIA TECHNOLOGY (DOT&AT)

QP CODE: 5136, SECTION-A, ANATOMY (RS -2 SCHEME) (WRITE IN BLUE ANSWER BOOK)

#### TIME: 3 HRS

#### MAX. MARKS: 100

 $4 \times 5 = 20$ 

#### I. SHORT NOTES - ANSWER ANY FOUR.

- 1. Describe shoulder joint in detail
- 2. Name the parts of gastrointestinal system. Write briefly about stomach.
- 3. Describe the heart in detail
- 4. Mention the parts of respiratory system and describe larynx in detail
- 5. Mention the female reproductive organs and describe the uterus in detail

#### II SHORT ANSWERS

- 6. Mention the types of cartilage with example
- 7. Mention the parts of hip bone
- 8. Movements at the knee joint
- 9. Mention any 3 endocrine organs
- 10. Classify epithelia with examples
- 11. Mention any 3 contents of the mediastinum
- 12. Mention 3 layers of meninges
- 13. Name the intercostal muscles
- 14. Mention the parts of small intestine
- 15. Types of vertebrae

#### QP CODE: 5137, SECTION-B, PHYSIOLOGY (RS -2 SCHEME) (WRITE IN RED ANSWER BOOK)

#### I.SHORT NOTES - ANSWER ANY FOUR

- 1. Plasma proteins
- 2. Movements of small intestine
- 3. Errors of refraction with correction
- 4. Cardiac output
- 5. Neuromuscular transmission across neuromuscular junction

#### II. SHORT ANSWERS

- 6. Functions of Mitochondria
- 7. Rh typing
- 8 .Aqueous humour
- 9. Hypoxia
- 10. Functions of Cerebrospinal fluid
- 11. Structure of Nephron
- 12. List 3 functions of RBC
- 13. Mention 3 conditions causing increased Eosinophil count
- 14. Complications of mismatched blood transfusion
- 15. Receptors of vision

#### etail

10X3=30

4X5=20

10x3=30

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY (DMRT) QP CODE: 2145, HOSPITAL STATISTICS & BIOSTATISTICS (RS -1 SCHEME) (WRITE IN GREEN ANSWER BOOK)

TIME: 3 HRS

#### MAX. MARKS: 90

#### I. LONG ESSAY – ANSWER ANY <u>THREE</u>

- 1) Define Biostatistics and its uses.
- 2) What are the uses of registration of births and deaths? What's the procedure for registration of births and deaths in our state?
- 3) Describe measures of central tendency.
- 4) Define data. What are different sources of data? Describe presentation of data.

#### II. WRITE IN BRIEF ON ANY TEN

- 5) Simple Random Sampling.
- 6) Pie Chart
- 7) Uses of health information system
- 8) ICD classification of diseases.
- 9) Census.
- 10) Infant mortality rate.
- 11) Uses of computers in medical records department..
- 12) Life table.
- 13) How to calculate bed turnover ratio.
- 14) Incidence and its uses.
- 15) Histogram.

#### III. WRITE BRIEFLY ON ANY FIVE.

- 16) Medical audit.
- 17) Sex ratio.
- 18) Record linkage..
- 19) Standard error.
- 20) Average length of stay
- 21) Queue system in OPD

\*\*\*\*\*\*

5x2=10

 $10 \ge 5 = 50$ 

3x10=30

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY (DMRT) QP CODE: 5146, HOSPITAL STATISTICS & BIOSTATISTICS (RS -2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

TIME: 3 HRS

## MAX. MARKS: 100

 $8 \times 5 = 40$ 

#### I. SHORT NOTES -ANSWER ANY EIGHT

- 1. Define statistics. Enumerate different branches of statistics.
- 2. Rules of tables.
- 3. Standard deviation
- 4. Types of data and methods of its collection
- 5. Tabulation of data
- 6. Prevalence and Incidence
- 7. Uses of computers in medical records department
- 8. Registration of vital events
- 9. Census
- 10. Characteristics of standard normal curve

#### **II. SHORT ANSWERS**

- 11. Uses of Biostatistics
- 12. Bar charts
- 13. Birth registration
- 14. Types of variables
- 15. MMR
- 16. Death rate
- 17. Define sampling
- 18. Name three notifiable diseases
- 19. Define data
- 20. Sex ratio
- 21. IMR
- 22. Mean
- 23. Mode
- 24. Name three vital statistics
- 25. Survey
- 26. Histogram
- 27. Frequency polygon
- 28. Random sampling
- 29. Range
- 30. Birth rate

 $20 \times 3 = 60$ 

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#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN **DIALYSIS TECHNOLOGY (DDT)** QP CODE: 2155, SECTION-A, ANATOMY (RS -1 SCHEME) (WRITE IN BLUE ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 90 I. LONG ESSAY- ANSWER ANY ONE $1 \ge 10 = 10$ 1. Describe the Heart under the following heading: (a) Chambers, (b) Covering (c) Blood Supply. 2. Name different parts of the Brain. Describe Cerebrum in brief. **II. SHORT NOTES (ANY FIVE)** $5 \times 5 = 25$ 3. Urinary Bladder 4. Stomach 5. Spleen 6. Thyroid Gland 7. Histology of Hyaline Cartilage 8. Femoral Artery **III. SHORT ANSWERS** $5 \times 2 = 10$ 9. Name any two Muscles of Abdomen 10. Name the Bones of Fore Arm 11. Name two Veins of Upper Limb 12. Name the parts of Urinary System 13. Name any two Lymphoid Organs **QP CODE: 2156, SECTION-B, PHYSIOLOGY (RS-1 SCHEME)** (WRITE IN RED ANSWER BOOK) LONG ESSAY- ANSWER ANY ONE I. 1 x 10 =10 1. List the various types of Transport across cell membrane. Explain Active transport with example. 2. Classify different types of WBC's with the diagram. Explain the functions of all types of WBC. **II. SHORT NOTES (ANY FIVE)** $5 \times 5 = 25$ 3. Cardiac cycle 4. Structure of Cell 5. Haemoglobin 6. Micturition 7. Actions of Anti Diuretic Hormone (ADH). 8. Renal regulation of Acid Base balance. **III.WRITE SHORT ANSWERS** $5 \times 2 = 10$ 9. Normal Value of 1) Pulse 2) Respiratory Rate 10.Name the Plasma Proteins 11. Artificial respiration 12. Hormones involved in mineral metabolism 13. Write a neat labelled diagram of normal ECG geaph

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN DIALYSIS TECHNOLOGY (DDT) QP CODE: 5155, SECTION-A, ANATOMY (RS -2 SCHEME) (WRITE IN BLUE ANSWER BOOK)

#### TIME: 3 HRS

#### **MAX. MARKS: 100**

#### I. SHORT NOTES -ANSWER ANY FOUR

- 1. Mention the parts of the respiratory system and describe the lungs in detail
- 2. Classify bone with examples
- 3. Mention the lymphoid organs in the body and describe the spleen
- 4. Describe the heart in detail
- 5. Mention the endocrine organs and describe the thyroid gland

#### **II SHORT ANSWERS**

- 6. Median cubital vein
- 7. Peritoneum
- 8. Mention the parts of the nervous system
- 9. Mention any 3 long bones of upper limb
- 10. Mention any 3 arteries of lower limb
- 11. Classify muscle with examples
- 12. Mention the quadrants of the abdomen
- 13. Mention the movements at the shoulder joint
- 14. Paranasal sinuses
- 15. List any 3 nerves in the upper limb

#### **OP CODE: 5156, SECTION-A, PHYSIOLOGY (RS -2 SCHEME)** (WRITE IN RED ANSWER BOOK) $4 \times 5 = 20$

#### T SHORT NOTES -ANSWER ANY FOUR

- 1. Structure and functions of cell membrane
- 2. Explain extrinsic mechanism of coagulation
- 3. Functions of small intestine
- 4. Functions of Growth hormone
- 5. Mechanism of urine formation

#### **II. SHORT ANSWERS**

- 6. Write a neat labelled diagram of Synapse
- 7. Mention the Functions of haemoglobin
- 8. What is the normal Heart rate? Write 2 conditions in which it increases
- 9. Define GFR. Give its normal value
- 10. Name the refractory errors of vision
- 11. Electrocardiogram(ECG)
- 12. Role of Acid base regulation by kidneys
- 13. Anticoagulants
- 14. Name hormones of hypothalamus
- 15. Three functions of skin

#### \*\*\*\*\*

10x3=30

 $4 \ge 5 = 20$ 

10X3=30

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN **DENTAL HYGIENE (DDH) QP CODE: 2185, SECTION-A, BIOCHEMISTRY (RS -1 SCHEME)** (WRITE IN BLUE ANSWER BOOK) TIME: 1.30HRS

#### I. LONG ESSAY - ANSWER ANY ONE

- 1. Describe the source, requirement (RDA), biochemical functions and deficiency manifestations of Vitamin D.
- 2. Describe the role of Carbohydrates, Fats & Proteins in relation to dental & oral health.

#### **II. SHORT NOTES- ANSWER ANY THREE**

- 3. Effect of malnutrition on oral health
- 4. Test to detect proteinuria
- 5. Special diet in maxillofacial injury cases
- 6. Vitamin C

#### QP CODE: 2186, SECTION-B, RADIOLOGY (RS -1 SCHEME) (WRITE IN RED ANSWER BOOK)

#### I. WRITE SHORT NOTES

- 1. Processing and mounting of dental radiographs
- 2. Intraoral peri apical X- ray
- 3. Hazards of radiation and protection against it
- 4. Orthopantomogram.

#### \*\*\*\*\*\*

MAX. MARKS: 45

3x5 = 15

4X5=20

1x10=10

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN DENTAL HYGIENE (DDH) QP CODE: 5185, SECTION-A, BIOCHEMISTRY (RS -2 SCHEME) (WRITE IN BLUE ANSWER BOOK)

#### TIME: 1.30HRS

#### I. SHORT NOTES

- 1) Define enzyme and discuss the factors effecting enzyme activity.
- 2) Nutrition in relation to oral health.

#### II. SHORT ANSWERS

- 3) Difference between DNA and RNA.
- 4) Functions of plasma proteins.
- 5) Deficiency of Vitamin A.
- 6) Abnormal constituents of urine.
- 7) Essential amino acids.

#### QP CODE: 5186, SECTION-B, RADIOLOGY (RS -2 SCHEME) (WRITE IN RED ANSWER BOOK)

#### I. LONG ESSAY

- 1. Write in detail about bisecting angle technique
- 2. Write in detail about developing and fixing solution

#### **II. SHORT NOTES**

- 3. Structure of an atom
- 4. Occlusal radiograph
- 5. Paralleling technique
- 6. Bite wing radiograph.
- 7. Orthopantomogram.

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# MAX. MARKS: 50

2x5 = 10

5x3=15

2x5=10

5x3=15

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY

#### PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) QP CODE: 4195, BIOMECHANICS (RS -2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

MAX. MARKS: 100

8X5 = 40

**I.SHORT NOTES – ANSWER ANY <u>EIGHT</u>** 1. Explain composition and resolution of forces.

- Explain composition and resolution of forces.
   Explain concurrent forces, coplanar forces, and parallel forces.
- 3. Define gravity. Explain LOG & COG with diagram.
- 4. Define force Cive a diagrammatic representation of for
- 4. Define force. Give a diagrammatic representation of forces.
- 5. Define levers. Explain its types and its mechanical advantages.
- 6. Describe biomechanics of vertebral column
- 7. Describe biomechanics of Hip joint
- 8. Define Scapulo-humeral rhythm
- 9. Define gait and analysis of gait
- 10. Define Lordosis and Kyphosis

#### **II. SHORT ANSWERS**

- 11. Assistive and resistive movement.
- 12. Range of movement.
- 13. Use of spring in series and parallel in physiotherapy.
- 14. Mechanical advantages of lever.
- 15. Rotation about a pivot.
- 16. Action and reaction.
- 17. Work and power.
- 18. Hook's law.
- 19. Friction.
- 20. Apply first and second law in elbow flexion.
- 21.Q angle of knee joint
- 22. Name pelvic floor muscles
- 23. Name the ligaments of knee joint
- 24. Ataxic gait
- 25. Goniometer
- 26. Define Energy, work and power
- 27. Pulleys and its types
- 28. Momentum.
- 29. Advantages and disadvantages of friction
- 30. Properties of springs

\*\*\*\*\*\*

20X3 = 60

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) QP CODE: 3203 (RS -1 SCHEME) DISABILITY EVALUATION & COMMUNITY PHYSIOTHERAPY (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3HRS

# I. LONG ESSAY- ANSWER ANY FOUR

- 1. Explain about the prevention and management of congenital contractures and deformities
- 2. Evaluation tools to identify disabilities
- 3. Describe the term Prosthesis and Orthosis. Discuss the different types of upper and lower limb prosthesis.
- 4. Explain in detail the characteristics and types of muscular dystrophies, assessment and physiotherapy management of Duchene Muscular Dystropy (DMD)
- 5. Define cerebral vascular accident (CVA). Discuss the role of physiotherapist in rehabilitation of cerebral vascular accident (CVA) patient.
- II. SHORT NOTES- ANSWER ANY <u>FIVE</u>

5 X5 =25

- 6. Amputation
- 7. Neonatal reflexes
- 8. Speech therapy
- 9. Physical problems of old age
- 10. Sach foot
- 11. Community based rehabilitation (CBR) organisation

\*\*\*\*\*\*

MAX. MARKS: 65 4 X10 =40

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN MEDICAL RECORD TECHNOLOGY (DMRT) QP CODE: 3144,MEDICAL & SURGICAL CODING(RS -1 SCHEME) (WRITE IN BLUE ANSWER BOOK)

# TIME: 1 HR

#### MAX. MARKS: 20

I.ANSWER	ANY <u>THREE QUESTIONS</u>	3x 5 = 15
1. Explair	n the types of coding books, and names of ICD cod	ling books
2. How many different types of category codes we can observe in ICI		rve in ICD
coding	book?	
3. Define	the purposes of coding? What are the uses of codi	ng
afterwa	ards?	
4. What is	s Medical, Surgical coding according to ICD 10	
II. Expand	l the following Abbreviations.	$1 \times 5 = 5$
<b>5.</b> TSS		

- 6. TMJ
- 7. TID
- 8. TIA
- 9. TCAG

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#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN MEDICAL RECORD TECHNOLOGY (DMRT) **QP CODE: 6146,MEDICAL & SURGICAL CODING (RS -2 SCHEME)** (WRITE IN BLUE ANSWER BOOK)

## TIME: 1 HR

## MAX. MARKS: 30

#### I. SHORT ANSWER ANY <u>TEN</u>

10 X 3 = 30

- 1. What do you mean by coding?
- 2. Define Parentheses.
- 3. Define Dagger and Asterisk coding system.
- 4. Brief the uses of ICD coding.
- 5. How many volumes are there in ICD 10? Explain.
- 6. How many sections are there in Volume III? Mention them.
- 7. How many chapters are there in Volume I? What are the uses of Volume II?
- 8. Define homonyms.
- 9. What is a Statistical Classification of Diseases?
- 10.Why use a classification.
- 11.Define synopsis.
- 12.Define Eponyms.

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KARNA	TAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUT	HORITY
	PARAMEDICAL BOARD, BENGALURU	
	SUPPLEMENTARY EXAMINATION, JANUARY 2020	
	COMMON FOR ALL FIRST YEAR CERTIFICATE COURSES	•
	<b>QP CODE: 1104, ENGLISH(RS -1 SCHEME)</b> (WRITE IN BLUE ANSWER BOOK)	
TIM	IE: 1.30 HRS MAX. MA	<b>RKS: 45</b>
Ι	WRITE AN ESSAY ON ANY ONE OF THE FOLLOWING	15x1=15
	1. Role of Technician in the diagnostic laboratory	
	2. Air Pollution	
II	ANSWER ANY ONE	10x1=10
	3. Write a letter to the Administrative Officer requesting for ye	our
	Transfer Certificate	
	4. Write a letter to your friend inviting him/her to your Birthd	lay
	party	5
III	WRITE THE OPPOSITE GENDER OF	5x1=5
	5. Goose	
	6. Manager	
	7. Prince	
	8. Uncle	
<b>TT</b> 7	9. Dog	F. 1-F
IV	WRITE THE OPPOSITE OF THE FOLLOWING 10. Tall	5x1=5
	11. Agree 12. Clever	
	13. Transparent	
	14. Bright	
$\mathbf{V}$	MAKE SENTENCES USING THE FOLLOWING	5x1=5
	15. More than	
	16. Because of	
	17. Inspite of	
	18. In order to	
	19. Whenever	
VI	FILL IN THE BLANKS	5x1=5
	20. Mala is beautifulLaxmi	
	21. My house isthe way to Chruch	
	22. This book isMayana	
	-	
	23. It isapple	
	24. He is boy	

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#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 FIRST YEAR DIPLOMA COURSES, QP CODE: 4107, ENGLISH (RS -2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### Note: This Question Paper contains 2 Pages

TIN		3 HRS	MAX. MARKS: 100
I.	Wŀ	RITE AN ESSAY ON ANY ONE OF THE FOLLOWING	1x15=15
	1.	Mobile Phones	
	2.	Importance of Sports	1 10 10
II	2	ANSWER ANY ONE (LETTER WRITING)	1x10=10
	3.	Write a letter to your Principal requesting to grant permission to Day by the students.	celebrate Teachers
	4.	Write a letter to your parents telling them about your paramedica	al course
		USE THE FOLLOWING IDIOMS/PHRASES IN SENTENCE O	
	0.	a) Piece of cake b) A Black sheep c) Call One's name d) Chil	
		e)Appreciate	
	6.	CHANGE THE FOLLOWING INTO INDIRECT SPEECH	5x1=5
		a) Anju said to Anu "I am returning to my home town tomorrow	<i>,</i> ″′
		b) 'Helen writes very well' said her friend	
		c) If I see Jai, I shall certainly bring him here said Dr Rajesh	
		d) He said to you, "What is the price of this tray"?	
		e) "Will you follow me to the village"? Raghu asked me.	
	7.	CHANGE THE VOICE OF THE FOLLOWING	5x1=5
		a) Reema made a garland in one day	
		b) The Manager will give you directions	
		c) All the arrangements are being made by our college managem	nent.
		d) A new name was invented by Mr. Bumble	
		e) Our girls won many prices	
	8.	WRITE THE OPPOSITE OF THE FOLLOWING	5x1=5
		a) Active b) Bright c) Occupy d) Happy e) Empty	
	9.	FILL IN THE BLANK WITH THE SUITABLE PREPOSITION	5x1=5
		a) His house isthe river	
		b) Ravi wenthis father	
		c) Little water isthe tank	
		d) He comes once inweek	
		e) Salman met Amir5 o'clock in the eve	
	10	FILL IN THE BLANKS WITH ARTICLES	5x1=5
		a) Bombay isbig city	
		b) Get meapple	
		c) Anu is only girl who won the match	
		d) Sun rises inEast	
		e) She isbeautiful girl	
	11	. GIVE THE SYNONYMS OF THE FOLLOWING	5x1=5
	-	a) Hide b) Run c) Move d) Use e) Do	
	12	. Read the following passage carefully and answer the questions	s that follow
	(1) India is a secular, democratic nation. This implies that every religion is treated equally		
	、 /	and at par with every other religion. No religion is accorded any	÷ •
	of any kind. All citizens are also free to practice, preach or profess any religion of their		

choosing. The state does not have a unified or homogeneous religious following(2) This unique characteristic of India ensures its unity in diversity. India has been the Christianity, Buddhism, Sikhism, Zoroastrianism, Jainism and so on exist simultaneously, peacefully and harmoniously.

.....2

- (3) But, some anti-social elements have interpreted the sanctity of religions in a twisted way. No religion preaches violence or rioting. All the religions are but various ways to reach the Supreme Being, they are paths which lead to the ultimate truth and salvation, though we refer to the destination by various names such as Jesus, Krishna, Buddha, and Allah and so on. It is important to realize that in order to ensure a peaceful mosaic of cultural distinctness, the path of non-violence or ahimsa, has given by the Father of the nation, must be followed unwaveringly.
- (4) God created man in his own image. Hence, it follows naturally that there is some divinity within all human beings. Thus, to kill and murder in the name of religion is blasphemy. Only once the religious fanatics understand this, will there be perpetual peace in the land.

#### A. ANSWER THE FOLLOWING QUESTIONS:

- (a) What is meant by the term 'secular'? (1)
- (b) What is special about India's association with religion? (1)
- (c) Which is a secular, democratic nation? (1)
- (d) Why are human beings divine? (1)
- (e) What are the religions mentioned in the passage? (2)
- (f) How can all religions co-exist peacefully? (2)

#### **B.** Find the words from the passage which mean the same as the following:

- i) All (para1) (1)
- ii) Several (Para 2) (1)

#### 13. WRITE THE CORRECT MEDICAL TERM

a) Gynaeb) Neu c) Hepad) Endo e) Immuf) Ortho g) Micr h) Phyi) Onco j) ICU 14. E MAIL WRITING 1x5=5

Write an Email to a company ordering some medicines.

#### 15. FILL IN THE BLANKS WITH APPROPRIATE ARTICLES AND PREPOSITIONS GIVEN IN THE BRACKET (at, the, by, for, at) 5x1=5

.....little girls, who had been told that Lincoln was not very good looking, was taken...... her father to see the President ...... the white house. Lincoln chatted with her......a while in his gentle, humerousway. Suddenly the little girl called out "Daddy! He is not ugly all He is just

Suddenly the little girl called out, "Daddy! He is not ugly..... all. He is just beautiful.

#### 16. RE-ARRANGE THE JUMBLED SEGMENTS TO FORM A SENTENCE. 6x1=6

a) Licked / calmly/the cat/the saucer

b) She/letters/tomorrow/will write

c) A bag of gold/the king / the post/gave

d) good Morning/the students / their teacher/wished

e) A good husband / chose / her parents/ her

f) Carefully / drives / Kannan / the Car

# 17. COMPLETE THE FOLLOWING DIALOGUE (SITUATION BASE CONVERSATION) 4

4x1=4

10x1=10

Shop Keeper: What do you want?

Boy: .....

Shop Keeper:....

Boy: No I want only a cheap pen

Shop Keeper: What .....?

Boy: I would like to have a green one

What.....

Shop Keeper: It will cost a rupee

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#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT) **QP CODE: 2105,MICROBIOLOGY (RS -1 SCHEME)** (ANSWER IN GREEN BOOK)

#### TIME: 3 HRS

#### MAX. MARKS: 90

#### LONG ESSAY- ANSWER ANY TWO I. 2x10 = 201. Explain washing and packing of materials used in microbiology for hot air oven. 2. Mention different types of microscopes and explain in detail dark field microscope. 3. Draw neat diagram of bacterial cell and explain gram negative cell wall of bacteria. SHORT NOTES- ANSWER ANY TEN II. 10x 5 = 504. TSI test. 5. Bacterial flagella. 6. Koch postulates. 7. Antibody. 8. Negative stain. 9. Active immunity. 10. Anaerobic jar. 11. Structure of IgG. 12. Enrichment media. 13. Cold sterilization. 14. Fumigation. 15. Ionizing radiation. III. SHORT ANSWERS. 10x2 = 2016. Name two gram negative cocci. 17. Name two indol positive bacteria. 18. Name two anaerobic bacteria. 19. Name two bacterial filters. 20. Name two RNA viruses. 21. Name two selective media. 22. Name two reagents in acid fast stain. 23. Name two bacterial vaccines. 24. Name two disinfectants. 25. Name two name two articles sterilized by hot air oven.

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#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT) QP CODE: 5107,MICROBIOLOGY(RS -2 SCHEME)

(ANSWER IN GREEN BOOK)

#### TIME: 3 HRS

#### MAX. MARKS: 100

- I. SHORT NOTES- ANSWER ANY <u>EIGHT</u>
  - 1. Contributions of Louis Pasteur
  - 2. Use and care of compound microscope
  - 3. Write in brief about structure of a bacterial cell
  - 4. Hot air oven
  - 5. Indole test
  - 6. IgM
  - 7. Innate immunity
  - 8. ELISA
  - 9. Biomedical waste segregation and disposal
  - 10. Type 4 hypersensitivity reaction

#### II. SHORT ANSWERS

- 11. Name different types of microscopes
- 12 Write neat labelled diagram of a bacterial spore
- 13 Enriched media
- 14 Phases of bacterial growth curve
- 15 Uses of dark ground microscope
- 16 Patterns of arrangement of bacterial flagella
- 17 Name three viral vaccines
- 18 Cold sterilization
- 19 Sterilization controls
- 20 Name three Gram positive cocci
- 21 Name three ingredients of Nutrient agar
- 22 Robertson cooked meat medium
- 23 Define Precipitation and Agglutination reactions
- 24 Name personal protective equipment used in the microbiology laboratory
- 25 Koch's postulates
- 26 Functions of bacterial capsule
- 27 Define Sterilization and Disinfection
- 28 Name three common chemical disinfectants used in the hospital
- 29 Cleaning of Blood/ Body fluid spill in the laboratory
- 30 Name common staining techniques used in microbiology

#### \*\*\*\*\*\*

20X3=60

 $8 \times 5 = 40$ 

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI) (RS -1 SCHEME) **QP CODE: 2113,COMMUNITY MEDICINE, PAPER-III** (ANSWER IN GREEN BOOK)

# TIME: 3 HRSMAX. MARKS: 90I. LONG ESSAY- ANSWER ANYTWO2x10=20

- 1. What is screening? Mention the uses and criteria for screening test.
- 2. Define Epidemic. Write in detail about an investigation of an epidemic.
- 3. Discuss various modes of disease transmission, with suitable examples.

#### **II.WRITE SHORT NOTES ON ANY TEN**

- 4. What are migration studies?
- 5. Census
- 6. Cold chain.
- 7. Quarantine.
- 8. Health of travelers.
- 9. Statistics and its uses
- 10. Cyclops.
- 11. What are the uses of epidemiology?
- 12. Types of disinfection
- 13. Mean, median and mode
- 14. Reservoir of infection
- 15. Spot map.

#### **III. WRITE SHORT ANSWERS**

- 16. Bar chart.
- 17. Case fatality rate
- 18. Pentavalent vaccine.
- 19. Isolation.
- 20. Death registration
- 21. Two diseases transmitted by Ticks
- 22. Secondary attack rate.
- 23. Two diseases transmitted by direct contact
- 24. Define endemic
- 25. Name two advantages of live vaccines.

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10 x 2 =20

 $10 \ge 5 = 50$ 

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN HEALTH INSPECTOR (DHI) QP CODE: 5115, (RS -2 SCHEME) COMMUNITY MEDICINE, PAPER-III (ANSWER IN GREEN BOOK)

#### TIME: 3 HRS

#### MAX. MARKS: 100

I. SHORT NOTES- ANSWER ANY <u>EIGHT</u>	8x 5 = 40
1. Criteria for screening test	
2. Vitamin A deficiency. Prevention and control of Vitamin A	
3. Demography cycle	
4. Note on food adulteration	
5. What is anaemia? Write about its prevention	
6. Methods of pasteurization	
7. VVM	
8. Infant mortality rate and its causes	
9. Census	
10. Write a note on cold chain system	
II. SHORT ANSWERS	$20 \ge 3 = 60$
11. Define health	
12. Incubation period	
13. Prevalence	
14. What is active immunization	
15. Milk borne diseases	
16. Define sensitivity	
17. Name three diseases which are commonly screened	
18. Food fortification	
19. Dietary fibre	
20. Cause of Maternal mortality rate in India	
21. Name three sources of health information	
22. Pentavalent vaccine	
23. Weaning	
24. Isolation	
25. Three nutrition problems	
26. Parboiling of rice	
27. Classify vitamins	
28. Measures of central tendencies	

- 29. Three diseases prevented by vaccines
- 30. Three examples of pluses

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## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY (DMXT) **QP:2124, PATHOLOGY (RS -1 SCHEME)** (ANSWER IN BLUE BOOK) MAX. MARKS: 45

## **TIME: 1.30 HRS**

#### I. LONG ESSAY- ANSWER ANY ONE

- 1) Define and classify edema. Discuss the etiopathogenesis of Renal Edema
- 2) Define and classify Pneumonia. Discuss the etiopathogenesis of Lobar Pneumonia

## **II. SHORT ESSAY: ANSWER ANY FIVE**

- 3) Define Necrosis. Discuss different types of necrosis with examples.
- 4) Mention differences between benign and malignant tumours.
- 5) Chronic cholecystitis
- 6) Myocardial infarction
- 7) Hydronephrosis
- 8) Achalsia cardia
- 9) Osteoclastoma

## **III. SHORT NOTES:**

- 10) Vitamin A Deficiency
- 11) Mention 2 types of carcinoma thyroid
- 12) Fibroid uterus
- 13) Causes of Epistaxis
- 14) Mention 4 factors affecting fracture healing

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5x2=10

1x10=10

5x5 = 25

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT) **QP: 5125, PATHOLOGY(RS -2 SCHEME)** (ANSWER IN BLUE BOOK)

TIME: 1.30 HRS

MAX. MARKS: 50

# I. SHORT NOTES – ANSWER ANY<u>FOUR</u>

- 4x5=20
- 1. Define embolism. Discuss different types of embolism.
- 2. Etiology and pathogenesis of osteomyelitis.
- 3. Myocardial Infarction.
- 4. Define inflammation. Types with examples.
- 5. Write in detail about TB lung. Add a note on primary complex.

# II. SHORT ANSWERS.

- 6. Pleural effusion.
- 7. Marasmus.
- 8. Cold abscess.
- 9. Gastric ulcer.
- 10.Arthritis.
- 11.Gall stones.
- 12.Fibroadenoma.
- 13.Hydronephrosis.
- 14. Features of Benign Tumour.
- 15.Hyperplasia.

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10x3=30

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) **QP: 4197, SECTION-A, PSYCHOLOGY (RS 2 SCHEME)** (ANSWER IN BLUE BOOK)

## TIME: 3 HRS

### **MAX. MARKS: 100**

# **I.SHORT NOTES-ANSWERANY FOUR**

- 1. Define psychology. How psychology gained the status of science.
- 2. What is learning? Mention the types of learning.
- 3. What are motives? How motives are classified?
- 4. What is emotion? Mention psychological changes during emotions
- 5. What is perception? Diagrammatically represent perceptual Organization?

### **II.SHORT ANSWERS**

- 6. Sources of frustration.
- 7. Forgetting.
- 8. Growth and development.
- 9. Methods to improve memory.
- 10. Hallucination.
- 11. Study habits.
- 12. Management of stress in modern life style.
- 13. Attitude.
- 14. Memory process.
- 15. Branches of psychology.

### **QP: 4198, SECTION-B, SOCIOLOGY (RS 2 SCHEME)** (ANSWER IN RED BOOK)

### I.SHORT NOTES-ANSWERANY FOUR

- 1. Describe the causes of population explosion Difference between health problems of urban and rural community.
- 2. Define sociology? Describe the social factors related to health and diseases?
- 3. What are social change and its necessity?
- 4. Define culture. Illustrate it with examples.
- 5. Population explosion and its effects in the society

### **II.SHORT ANSWERS**

- 6. Medical social worker.
- 7. Problems of underprivileged
- 8. Drug abuse.
- 9. Beggary
- 10. Poverty and unemployment
- 11. Geriatric problems.
- 12. Family
- 13. General features of social institution.
- 14. Juvenile delinquency.
- 15. Importance of family in the present day condition.

### \*\*\*\*\*\*

10x3 = 30

4x5 = 20

10x3 = 30

4x5 = 20

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) **QP: 3204, P.T. IN MEDICAL CONDITIONS(RS 1 SCHEME)** (ANSWER IN GREEN BOOK)

## TIME: 3 HRS

# MAX. MARKS: 90

# I.LONG ESSAY- ANSWER ANY FIVE5x12=60

- 1. How do you treat a child in acute and convalescent stage of poliomyelitis?
- 2. What is planar Fascitis? Write the Physiotherapy management for the same.
- 3. Discuss the physiotherapy assessment and management of 65 yrs old man with cerebral ataxia
- 4. Physiotherapy management for Rheumatoid arthritis
- 5. Describe the role of physiotherapist in Intensive Care Unit (ICU)
- 6. Define Parkinsonism, its features and physiotherapy management of Parkinson disorder.

# II. SHORT NOTES- ANSWER ANY <u>FIVE</u>

5x6=30

- 7. Spirometry
- 8. Erb's palsy
- 9. Diabetic foot
- 10.Upper Motor Neuron (UMN) lesion
- 11.Ulcers
- 12.Mitral stenosis

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### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY **QP CODE: 3101, BIOCHEMISTRY(RS -1 SCHEME)** (WRITE IN GREEN ANSWERBOOK) MAX. MARKS: 90

# TIME: 3 HRS

## I.LONG ESSAY - ANSWER ANY TWO

- 1. Describe the various kidney function test.
- 2. Explain the digestion and absorption of proteins.
- 3. What is quality control (QC) in laboratory? Name the QC charts. Briefly explain the Westguard rules to establish the QC.

## **II.SHORT NOTES - ANSWER ANY TEN**

- 4. Blood glucose homeostasis
- 5. Direct and indirect Vandenbergh test
- 6. Cardiac profile test
- 7. Abnormal constituents of urine
- 8. Outline the steps of creatinine formation
- 9. Significance of gluconeogenesis
- 10. Applications of chromatography
- 11. Total laboratory automation
- 12. Glucose Tolerance Test (GTT)
- 13. Principle of Electrophoresis
- 14. Standard deviation (SD)

# **III. SHORT ANSWERS**

- 15. List the substrate level phosphorylation steps in glycolysis.
- 16. Name any two enzymes of citric acid cycle.
- 17. Write the reaction catalysed by enzyme arginase in urea cycle.
- 18. Name the ketone bodies.
- 19. What are micelles?
- 20. How is the specific gravity of urine measured?
- 21. Mention two applications of ion selective electrodes (ISE)
- 22. What is uric acid? Mention the normal levels of serum uric acid.
- 23. Name the monosaccharides of lactose.
- 24. Write two applications of radioimmunoassay (RIA)

### \*\*\*\*\*

10x5=50

## 10x2=20

2x10 = 20

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY QP CODE: 6101, BIOCHEMISTRY (RS -2 SCHEME) (WRITE IN GREEN ANSWERBOOK)

### TIME: 3 HRS

MAX. MARKS: 100

## I.SHORT NOTES - ANSWER ANY EIGHT QUESTIONS8x5=40

- 1) Colorimetry, Principle, absorbance, transmittance and applications.
- 2) Random access auto analyzer.
- 3) Formation of Bilirubin.
- 4) Cardiac enzymes in Heart disease.
- 5) Jaundice and its classification.
- 6) Mention different methods of Glucose estimation.
- 7) Electrophoresis and its applications.
- 8) Enzyme Linked Immunosorbant Assay (ELISA).
- 9) Radio Immuno Assay (RIA).
- 10) Name the types of analyzers and benefit of automation.

## **II. SHORT ANSWERS**

- 11) Metabolic acidosis & alkalosis.
- 12) Principles of Quality assurance.
- 13) Pre analytical factors importance in clinical chemistry.
- 14) Accuracy, Specificity & Sensitivity.
- 15) Reference values and its interpretations.
- 16) Spectrophotometry and its importance.
- 17) Laws of Photometry.
- 18) Benedict's test.
- 19) Renal function test.
- 20) Van den berg test.
- 21) Myocardial infarction.
- 22) Chloride shift.
- 23) Biuret test.
- 24) Percentage error in laboratory.
- 25) Different methods of cholesterol estimation.
- 26) Biochemical findings in Hepatic Jaundice.
- 27) Specific gravity of Normal Urine.
- 28) Application of flame Photometer.
- 29) Creatinine clearance test.
- 30) Lipid profile.

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20 x 3=60

# KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR CERTIFICATE COURSES QP CODE: 1101, PHYSICS(RS -1 SCHEME) (WRITE IN <u>BLUE</u> ANSWERBOOK)

### TIME: 1.30 HRS

MAX. MARKS: 45

 $5 \times 2 = 10$ 

### I. LONG ESSAY – ANSWER ANY <u>ONE</u> $1 \times 10 = 10$

- 1. Explain work, power and energy with units.
- 2. Define radioactivity. Explain emission of  $\alpha$ ,  $\beta$  and  $\gamma$  rays with sketch.

### II.SHORT NOTES- answer ANY FIVE $5 \times 5 = 25$

- 3. Refraction of light with sketch
- 4. State Ohm's law and its expression
- 5. Capacitor with sketch and uses
- 6. Newton's law of gravitation
- 7. Surface tension and effects
- 8. Perfect gas and equation
- 9. Coulomb's law

### **III. SHORT ANSWER**

- 10. Speed and its unit
- 11. Units of temperature
- 12. Resistance and its unit
- 13. Dispersion
- 14. Scalars and vectors

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### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR CERTIFICATE COURSE/III YEAR DIPLOMA IN HEALTH INSPECTOR QP CODE: 3111, (RS -1 SCHEME) COMMUNITY MEDICINE, PAPER-I (WRITE IN <u>GREEN</u> ANSWERBOOK)

### TIME:3 HRS

I. LONG ESSAY - ANSWER ANY TWO

1 Describe epidemiology, clinical features and management of measles.Write a note on itsprevention.

2. Define primary health care. Briefly describe the elements and principles of primary health care

3. What are the Causes for road traffic accidents (RTA)? Name five measures to prevention RTAs.

### II. SHORT NOTES- ANSWER ANY<u>TEN</u>

- 4) Pulse polio Immunization
- 5) Health problems in urban area.
- 6) Risk factors for Diabetes Mellitus.
- 7) Epidemiology of Typhoid.
- 8) Modes of HIV transmission.
- 9) Danger signals of Cancer
- 10) Anganwadi centre
- 11) Scabies
- 12) DOTS treatment in tuberculosis.
- 13) Vision 2020
- 14) First Aid in dog bite
- 15) Vit A Prophylaxis programme.

### **III. SHORT ANSWERS**

- 16) Rule of halves in hypertension
- 17) Name two sexually transmitted diseases
- 18) ORS
- 19) BCG vaccine
- 20) Vaccine carrier
- 21) Iron Folic Acid Tablets
- 22) Mention any four zoonotic diseases
- 23) Mention any four organisms causing diarrhea
- 24) Hazards of smoking.
- 25) Name four domestic accidents

# 10X2=20

10 X 5=50

 $2 \times 10 = 20$ 

MAX. MARKS: 90

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN HEALTH INSPECTOR QP CODE: 6111, COMMUNITY MEDICINE, PAPER-I(RS -2 SCHEME) (WRITE IN <u>GREEN</u> ANSWERBOOK)

### TIME:3 HRS

### **I**. SHORT NOTES- ANSWER ANY EIGHT

- 1. Epidemiology of diarrhoeal disease and its prevention
- 2. Epidemiology of dengue
- 3. Steps of investigation of an epidemic
- 4. Prevention of rabies
- 5. Hazards of obesity
- 6. Rule of halves
- 7. Modifiable and non-modifiable risk factors of stroke
- 8. Pulse polio immunization
- 9. Modes of HIV transmission
- 10. Epidemiology of typhoid

### II. SHORT ANSWERS

- 11. Organisms causing ARI
- 12. Three water borne diseases
- 13. Three diseases caused by mosquito
- 14. Three non-communicable diseases
- 15. Modifiable risk of diabetes
- 16. Prevention of road traffic accidents
- 17. Diabetic foot
- 18. Measles vaccine
- 19. ORS
- 20. Three diseases due to obesity
- 21. Epidemiology of tuberculosis
- 22. Three diseases transmitted by faeco oral route
- 23. VVM
- 24. Effects of smoking
- 25. Accidents prevention
- 26. Passive smoking
- 27. Danger signs of cancer
- 28. Man made malaria.
- 29. Pentavalent vaccine
- 30. Three life style diseases

### MAX. MARKS: 100

 $8 \times 5 = 40$ 

 $20 \ge 3 = 60$ 

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN X-RAY TECHNOLOGY QP CODE: 3121, (RS -1 SCHEME) RADIOGRAPHY INCLUDING RADIOLOGY PHYSICS (WRITE IN GREEN ANSWERBOOK)

# TIME:3 HRS

MAX. MARKS: 90  $2 \times 10 = 20$ 

I. LONG ESSAY - ANSWER ANY TWO

 What is Electromagnetic radiation? Discuss different types of rays emitted from electromagnetic radiation with their wavelengths. Discuss properties of X-rays.
 Discuss factors affecting image formation on a conventional radiographic film
 Draw a cross-section of conventional x-ray film. Label the different layers of x-ray filmwith their thickness.

### II. SHORT NOTES - ANSWER ANY <u>TEN</u>

 $10 \ge 5 = 50$ 

- 4) TLD badge
- 5) Dental film
- 6) Chemical Artifacts
- 7) Coherent and Compton scattering
- 8) I.I.T.V.
- 9) Cassettes
- 10) High mA technique
- 11) Safe light
- 12) Half wave rectification
- 13) Ultrasound
- 14) Space charge effect
- 15) Alpha decay

## **III. SHORT ANSWERS**

- 16) Molybdenum
- 17) Diaphragms
- 18) Moving Grids
- 19) Ammeter
- 20) Permissible dose
- 21) High kV technique
- 22) Tele-Roentgenogram
- 23) Ten day rule
- 24) Computerized Radiography
- 25) Lethal dose

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 $10 \ge 2 = 20$ 

### PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 **III YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY** QP CODE: 6121, (RS -2 SCHEME) **RADIOGRAPHY POSITIONING & RADIOGRAPHIC PHOTOGRAPHY** (WRITE IN GREEN ANSWERBOOK) **TIME:3 HRS MAX. MARKS: 100** I. SHORT NOTES - ANSWER ANY EIGHT $8 \times 5 = 40$ 1. Linear attenuation coefficient 2. Grids- Functions and construction 3. Somatic and genetic effects of radiation 4. ALARA concept 5. Collimators 6. Skull views 7. Beam limiting devices 8. Radiation detectors 9. Management of contrast reactions 10. Sources of radiations **II. SHORT ANSWERS** $20 \times 3 = 60$ 11. Source to image distance 12. Views for scaphoid 13. Name any three Skull lines 14. Removal of items that cause artefacts 15. Filters 16. Lead masks 17. Stochastic effects of radiation 18. Milli ampere second 19. Environment protection agency 20. Steps followed during bedside procedures 21. Genetic effects of radiation 22. Personal radiation protectors 23. General planes in radiography 24. Radiography of paranasal sinuses 25. Shielding 26. Patient positioning for pelvic bone radiography 27. Use of cones 28. Skyline view of patella 29. Bone survey 30. Importance of clinical history \*\*\*\*\*

# KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY

QP CODE: 3131, ANAESTHESIA & ALLIED TOPICS(RS -1 SCHEME) (WRITE IN GREEN ANSWERBOOK)

# TIME:3 HRS

### MAX. MARKS: 90 2 x 10 = 20

I. LONG ESSAY – ANSWER ANY <u>TWO</u>

1. What are local anaesthetic agents? Classify local anaesthetics. Write briefly about Local anaesthetic toxicity.

2. Mention different types of centrineuraxial blockade. Describe the effect of centrineuraxial blockade on various organ systems.

3. Classify anaesthesia breathing systems. Write a note on Bain's circuit.

## II. SHORT NOTES- ANSWER ANY TEN

- 4. Pulse Oximetry
- 5. Colloids
- 6. Morphine
- 7. Nitrous Oxide
- 8. Jackson Ree's circuit
- 9. Minimum Alveolar Concentration
- 10. Pin Index safety System
- 11. Glycopyrrolate
- 12. Combitube
- 13. Electrical hazards in the Operation Theater
- 14. Informed written consent
- 15. Vecuronium

# **III. SHORT ANSWERS**

- 16. Name four opioid analgesics
- 17. Name four blood components
- 18. Name four neuromuscular blocking agents
- 19. Name two indications for endotracheal intubation
- 20. Name four complications of general anaesthesia
- 21. Name four crystalloids
- 22. Name two approaches to brachial plexus block
- 23. What is the colour of Oxygen and Nitrous oxide cylinder?
- 24. Name four cartilages of larynx.
- 25. Name two contraindications for spinal anaesthesia

# 10x2=20

10X5=50

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 **III YEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY** QP CODE: 6131, ANAESTHESIA & ALLIED TOPICS(RS -2 SCHEME) (WRITE IN GREEN ANSWERBOOK) **MAX. MARKS: 100**

# **TIME:3 HRS**

# I. SHORT NOTES - ANSWER ANY EIGHT

- 1. Classify muscle relaxants and write a note on Atracurium.
  - 2. Intravenous fluids and differences between crystalloids and colloids.
  - 3. Complications of spinal anaesthesia.
  - 4. Safety features in anaesthesia machine.
  - 5. Blood grouping, typing and blood transfusion reactions.
  - 6. Classify breathing systems and write a note on Jackson Rees circuit.
  - 7. ASA grading in preanesthetic evaluation.
  - 8. Describe different components of BLS.
  - 9. Non-invasive monitoring in anaesthesia.
  - 10. Sterilization of OT instruments.

### **II.SHORT ANSWERS**

- 11. Ketamine
- 12. Informed consent
- 13. PIN index
- 14. Mc Intosh Laryngoscope
- 15. Adrenaline
- 16. Premedication
- 17. Pulse oximetry
- 18. Fentanyl
- 19. Lignocaine
- 20. Lithotomy position
- 21. Ambu bag
- 22. Hydrocortisone
- 23. Colour coding of gas cylinders
- 24. Soda lime
- 25. Bougie
- 26. Bupivacaine
- 27. Indication of General Anaesthesia
- 28. Isoflurane
- 29. Drugs used in CPCR
- 30. Preoperative fasting criteria

 $8 \times 5 = 40$ 

20x3=60

# KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /II CERTIFICATE COURSE IN MEDICAL RECORDS **QP CODE: 3141, MEDICAL TERMINOLOGY (RS -1 SCHEME)** (WRITE IN GREEN ANSWERBOOK)

## **TIME: 3 HRS**

MAX. MARKS: 90

## Note: Question Paper contains 2 pages

<ul><li>I. Answer the following</li><li>1. Differentiate between Prefix, Suffix &amp; Root with one example</li><li>2. Name five Plains of the body?</li><li>3. Define Eponyms &amp; Give three example?</li></ul>	5x3=15 ?
<b>II. Give the Meaning for the following Prefix</b> A) Contra B) Dys C) Hyper D) Endo E) Trans	5x1=5
<b>III. Give the Meaning for the following Suffixes</b> A) Mania B) Oma C) Pathy D) Scopy E) Plasty	5x1=5
<b>IV. Give the Meaning for the following Roots</b> A) Derm B) Cardi C) Enter D) Osteo E) Lip	5x1=5
<ul> <li>V. Give the Meaning for the Phobias</li> <li>1) Acrophobia 2) Anemophobia 3) Chromatophobia 4) Febre I</li> <li>6) Polyphobia 7) Pharacophobia 8) Photophobia 9) Osmophobia</li> </ul>	,
<ul> <li>VI. Differentiate the following terms</li> <li>A) Aural &amp; Oral</li> <li>B) Cystostomy &amp; Cystotomy</li> <li>C) Endemic &amp; Epidemic</li> <li>D) Fascial &amp; Facial</li> <li>E) Larynx &amp; Pharynx</li> </ul>	5x2=10
<b>VII. Write the Terms for the following Numerals</b> 1. One 2. Four 3. Five 4. Ten Lakhs 5. Six	5x1=5
<ul> <li>VIII.Give the Medical Terms for the following</li> <li>1. Crushing of Stones in the bladder</li> <li>2.Suppurative inflammation of the uterus</li> <li>3.Paralysis of one or more of nerves of the eye</li> <li>4.The term for Pain in the Joints</li> <li>5.Deficiency of White blood cells</li> <li>6.Pus in the body cavity</li> </ul>	10x1=10

P.T.O.

7.Inflammation of the Vertebrae8.The term for removal of the tonsil9.Formation of Blood Clot10.Suture of Torn Cervix Uteri

IX. Define the follo	wing	10x1=10
1.Anemia		
2.Angiothrombosis		
3.Dysphagia		
4.Hemiplegia		
5.Hematoma		
6.Myopathy		
7.Otodynia		
8.Dehydration		
9.Nephropexy		
10.Spondylitis		
X. Expand the follo	0	10x1=10
1. I.V.H	6. Hb	
2. F.T.P	7. I.C.U	
3. D.O.B	8. E.C.G	
4. A.C.V.D	9. G.T.T	
4. A.C.V.D 5. Ca	9. G.T.T 10. F.B	
5. Ca	10. F.B	
5. Ca <b>XI. Give the meanin</b>		5x1=5
5. Ca <b>XI. Give the meanin</b> 1. Leucos	10. F.B	5x1=5
5. Ca <b>XI. Give the meanin</b> 1. Leucos 2. Cirrhos	10. F.B	5x1=5
5. Ca <b>XI. Give the meanin</b> 1. Leucos	10. F.B	5x1=5

- 4. Erythros
- 5. Melan

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## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY QP CODE: 6141, MEDICAL TERMINOLOGY (RS -2 SCHEME) (WRITE IN <u>GREEN</u> ANSWERBOOK)

### TIME: 3 HRS I.SHORT NOTES - ANSWER ANY EIGHTQUESTIONS

MAX. MARKS: 100

8x5 = 40

1. What are the objectives of Learning Medical Terminology?

- 2. What are the anatomical divisions of the back?
- 3. What are the clinical divisions of abdomen?
- 4. Name the planes of the body
- 5. Define a) Afferent b) Central c) Efferent d) lateral e) Medial
- 6. Differentiate between Amenorrhea and Dysmenorrhea
- 7. Differentiate between Tachycardia and Bradycardia
- 8. Differentiate between Addiction and Adduction
- 9. Define Simple fracture and compound fracture
- 10. Define prefix, suffix and roots with two examples for each

### **II. SHORT ANSWERS**

- 11. Define adjective suffixes with two examples
- 12. Define noun suffixes with two examples
- 13. Define Diminutive suffixes with two examples
- 14. Give the meaning for the a) Candidus b) Cyanos c) Lividus
- 15. Give the meaning for the a) Bini b) Micro c) Tetra
- 16. Write the meaning for a) Acrophobia b) Demenophobia c) parthenophobia
- 17. Give the meaning for a) Ante b) Cata c) semi
- 18. Give the meaning for a) Megaly b) Rhexis c) itis
- 19. Give the meaning for a) Plasty b) Scopy c) Tripsy
- 20. Give the meaning for a) Dynia b) Stasis c) osis
- 21. Give the meaning for a) Blephar b) Cysto c) Gastr
- 22. Define the terms a) Apnea b) Antepartum c) Encephalopathy
- 23. Define the terms a) Hyperglycemia b) Cholelithiasis c) Cardiorrhexis
- 24. Define the terms a) Paracentesis b) Cystoscopy c) Glycopenia
- 25. Define the terms a) Adenomalacia b) Cervicitis c) Cholangitis
- 26. Define the terms a) Amblyopia b) Dyspnea c) Enuresis
- 27. Expand the abbreviations a) IHD b) LSCS c) CSOM
- 28. a) Abnormal increase of cerebral fluid is called-----
  - b) Inability to sleep is called------
  - c) Stone in the salivary duct is called ------
- 29. a) pain in the muscle or muscular pain is called -----
  - b) Enlargement of liver and spleen is called------c) Inequality in the size of the cells is called------
  - c) inequality in the size of the cens is called
- 30. a) Membranes covering the uterus is called------b) Abnormally large foot is called-----
  - c) Outer layer of skin is called------

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20x3=60

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY QP CODE: 3151 (RS -1 SCHEME) FUNDAMENTALS OF HEMODIALYSIS & COMPONENTS (WRITE IN GREEN ANSWERBOOK)

### TIME:3 HRS

# I. LONG ESSAY - ANSWER ANY TWO

- 1. 1. Describe in detail regarding dialysis solution preparation including disinfection of machine.
- 2. Describe Ultra filtration in Acute Renal Failure and Chronic Renal Failure patient .
- 3. Define the three main principles of dialysis.Write the steps of measurement, the formulae for calculation and the interpretation of urea reduction ratio and Kt/V in the assessment of adequacy of dialysis.

## **II.SHORT NOTES- ANSWER ANY TEN**

- 4. Initiation of Hemodialysis.
- 5. Regional anticoagulation.
- 6. Therapeutic Apheresis.
- 7. Dialyzer reaction.
- 8. Discounting dialysis and Saline Rinse.
- 9. Water treatment plant
- 10. Various alarms in Hemodialysis machines.
- 11. Two methods of Heparin Administration.
- 12. Sterilization.
- 13. Write about special precautions when initiating hemodialysis for pregnant woman.
- 14. Artificial Kidney.
- 15. Draw the diagram and describe dialysis fluid circuit of hemodialysis apparatus.

## **III.WRITE SHORT ANSWERS**

- 16. Two types of EPO
- 17. Two causes for nausea during dialysis.
- 18. Normal pulse and blood pressure.
- 19. What are the cardiac complications in CKD patients.
- 20. Deionization.
- 21. Mass transfer area coefficient.
- 22. Activated partial thromboplastic time (APTT).
- 23. Define ultrapure water.
- 24. Two indications to start dialysis.
- 25. Surface area and priming volume of dialyzer

### \*\*\*\*\*\*

# $2 \times 10 = 20$

MAX. MARKS: 90

## 10×2=20

10×5=50

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN DIALYSIS TECHNOLOGY QP CODE: 6151, DIALYSIS PAPER-I (RS -2 SCHEME) (WRITE IN <u>GREEN</u> ANSWERBOOK)

### TIME:3 HRS

### MAX. MARKS:100

I. SHORT NOTES , ANSWER ANY <u>EIGHT</u>

- 1. Indications and complications of plasmapheresis.
- 2. Peritoneal Equilibration Test (PET).
- 3. Write a note on adequacy of hemodialysis.
- 4. Ultrafiltration.
- 5. Dialyzer reuse.
- 6. Techniques of AVF Cannulation.
- 7. Non-infectious complications with dialysis by catheter.
- 8. Heparin Free hemodialysis.
- 9. Composition of standard Hemodialysis solution.
- 10. Therapeutic Apheresis.

## **II.SHORT ANSWERS**

- 11. Write three chronic complications of AV fistula.
- 12. Diagrammatic representation of AV fistula pricking.
- 13. Three advantages of AVF over AV graft.
- 14. Name three acute complications of IJV insertion.
- 15. Three steps of management of hypotension in HD.
- 16. An elderly chronic CKD patient was started with 300 ml/min blood flow on his first dialysis, the patient developed head ache followed by seizures after three and half hours of HD. What is the cause of this condition and its management in brief?
- 17. Three causes of intra dialytic hypotension.
- 18. Peritoneal dialysis solution dextrose concentration.
- 19. Peritoneal dialysis cycler.
- 20. Three pore model of peritoneal dialysis.
- 21. Factors determining clearance in peritoneal dialysis.
- 22. Clinical features of CAPD peritonitis.
- 23. What are the foods rich in potassium?
- 24. Common causes of cramps during HD.
- 25. Principles of peritoneal dialysis.
- 26. What is sodium and ultra filtration profiling?
- 27. Name three renal function tests.
- 28. Medical education to patient about fistula care.
- 29. Name the components of rule of 6.
- 30. Write any three indications for dialysis.

8X5=40

20X3 =60

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN **OPHTHALMIC TECHNOLOGY** QP CODE: 3161, OPHTHALMOLOGY PAPER-I(RS -1 SCHEME) (WRITE IN GREEN ANSWERBOOK) MAX. MARKS: 90

## **TIME:3 HRS**

#### I. LONG ESSAYS- ANSWER ANY TWO $2 \times 10 = 20$

- 1. Define retinoscopy. Mention its types and stages and briefly describe its procedure
- 2. Name uses and maintenance of surgical instruments for cataract surgery

2 A. Define ametropia. Mention the types of surgical management of refractive errors.

#### II. SHORT NOTES - ANSWER ANY TEN $10 \times 5 = 50$

- 3. Indications and contraindications of contact lenses
- 4. Color vision testing and its importance
- 5. Define low vision and add a note on low vision aids
- 6. Optical aberrations
- 7. OT fumigation
- 8. Cycloplegic refraction
- 9. Chalazion surgery
- 10. Discuss centering of the lens
- 11. Intra ocular lens power calculation
- 12. Gonioscopy
- 13. Maintenance of tonometer.
- 14. Add a note on bedmaking, preparation of eye, and ocular bandaging.
- 15. Describe various routes of drug administration in ophthalmology.

#### SHORT ANSWERS III.

- 16. Lantern test
- 17. Describe simple transposition of lenses and its importance
- 18. Post mydriatic test
- **19.** Toric lenses
- 20. Tests for binocular single vision
- 21. Pediatric spectacle prescription
- 22. Trial set and its accessories
- 23. Transposition of toric lenses
- 24. Pin hole test and its importance
- 25. Maddox rod test

 $10 \times 2 = 20$ 

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY QP CODE: 6161, OPHTHALMOLOGY, PAPER-I(RS -2 SCHEME) (WRITE IN <u>GREEN</u> ANSWERBOOK)

### TIME:3 HRS

## MAX. MARKS: 100

I. SHORT NOTES- ANSWER ANY <u>EIGHT</u>

8x5=40

20x3=60

- 1. Laying of instruments trolley for Small incision cataract surgery
- 2. Describe various sutures used in Ophthalmic Surgeries & their Sterilization
- 3. Calibration of Keratometer
- 4. General work culture in OT (Operation Theatre)
- 5. OT (Operating Theatre) cleaning & maintenance
- 6. Technique of scrubbing, Gloving & Gowning
- 7. Segregation of OT Waste, Colour coding of Disposable Bin
- 8. How do you prevent transmission of HIV or HBsAg infection from patient to hospital staff ?
- 9. Trial Set
- 10. Instruments used for DCR surgery

## **II. SHORT ANSWERS**

- 11. Trimming of Eye lashes
- 12. Bed making
- 13. Shifting of blind patient from ward to OT
- 14. Lensometer
- 15. Uses of indirect ophthalmoscope
- 16. Maintenance of OT register
- 17. Starting & care of IV Line
- 18. Drugs used for topical anaesthesia
- 19. Drugs used in GA cases
- 20. Uses of diathermy
- 21. Sterilization of phacotubings
- 22. Instruments used in chalazion surgery
- 23. Packing of sterilization bin
- 24. IPD (Inter Papillary Distance ) setting
- 25. Instrument sterilization in minor OT
- 26. Types of retinoscopes
- 27. Types of autoclaves
- 28. Pachymeter
- 29. Uses of cryo machine
- 30. Connecting cardiac monitors

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN DENTAL MECHANICS **QP CODE: 3171, COMPLETE DENTURES (RS -1 SCHEME)** (WRITE IN BLUE ANSWERBOOK) **TIME:1.30 HRS** MAX. MARKS: 45

### I. LONG ESSAY

1. Define dental cast and write different types and parts of the cast.

### **II.WRITE SHORT NOTES**

- 2. Define articulator and write uses.
- 3. Immediate denture.
- 4. Beading and boxing.
- 5. Difference between acrylic and porcelain teeth.
- 6. Wax rims

## **III. SHORT ANSWERS**

- 7. Define cast.
- 8. Materials used for repair of denture
- 9. Define immediate denture.
- 10. Define balanced occlusion
- 11. Uses of record base

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5X2=10

1X10=10

5X5=25

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE QP CODE: 3181, DENTAL HYGIENE & ORAL PROPHYLAXIS (RS -1 SCHEME) (WRITE IN <u>BLUE</u> ANSWERBOOK) TIME:1.30 HRS MAX. MARKS: 45

### I. LONG ESSAY

1X10=10

5X5=25

5X2=10

1. Define and classify calculus. Write difference between supragingival and subgingival calculus.

### **II. SHORT NOTES**

- 2. Objectives of dental hygiene
- 3. Extrinsic and intrinsic dental stains
- 4. Clinical features of gingivitis
- 5. Stages of dental plaque formation
- 6. Periodontal abscess

## **III. SHORT ANSWERS**

- 7. Oral cancer
- 8. Fluoride varnish
- 9. Interdental brush
- 10. Gingival sulcus
- 11. Periodontal probe

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### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN DENTAL MECHANICS QP CODE: 6171, COMPLETE DENTURES(RS -1 SCHEME) (WRITE IN <u>BLUE</u> ANSWERBOOK) TIME:1.30 HRS MAX. MARKS: 50

### I. SHORT NOTES- ANSWER ANY <u>FOUR</u> QUESTIONS 4X5=20

- 1. 1) Posterior palatal seal area.
- 2. Tissue conditioner.
- 3. Define balanced occlusion and factors affecting it.
- 4. Classify articulators and write in detail about mean value articulator.
- 5. Advantages of immediate denture

### **II. SHORT ANSWERS**

- 6. Boundaries of buccal shelf area.
- 7. Classification of impression techniques.
- 8. Finishing polishing of the denture.
- 9. Difference between natural artificial teeth
- 10. Waxing of trial denture.
- 11.SPA factor
- 12. Cast preparation.
- 13. Define relining and materials used.
- 14. Remounting of casts
- 15. Posterior tooth form.

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10X3=30

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN **DENTAL HYGIENE QP CODE: 6181, ETIOLOGY & PATHOGENESIS OF PERIODONTAL DISEASES (RS -2 SCHEME)** (WRITE IN GREEN ANSWERBOOK) TIME: 3 HRS **MAX. MARKS: 100** I. SHORT NOTES: ANSWER ANY EIGHT QUESTIONS 8X5=40 1. Acute necrotizing ulcerative gingivitis 2. Microscopic features of gingiva. 3. Functions of periodontal ligament 4. Supra and subgingival dental plaque 5. Composition of calculus 6. classify periodontal pocket 7. Drug induced gingival enlargement 8. Clinical features of chronic periodontitis 9. Composition and functions of saliva 10. Causes for gingival recession **II.SHORT ANSWERS** $20 \times 3 = 60$ 11. Define dental plaque and calculus 12. Accellular cementum 13. Alveolar bone proper 14. Clinical features of gingivitis 15. Radiographic features of aggressive periodontitis 16. Name the theories of mineralization of calculus. 17.Food impaction 18. Contents of periodontal pocket 19.Free gingiva 20. Cells of periodontal ligament 21.Periodontal abscess 22. Blood supply to gingiva 23. Puberty gingivitis 24. Gingival abscess 25. Cemento dentinal junction 26.Extrinsic stains 27. Inflammatory gingival enlargement 28. Clinical significance of calculus 29. Haversian system 30.Name principal fibres of periodontal ligament. \*\*\*\*\*\*

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 **II YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)** QP CODE: 5191, SECTION-A, PATHOLOGY(RS -2 SCHEME) (WRITE IN BLUE ANSWERBOOK) **MAX. MARKS: 100** TIME: 3 HRS I.SHORT NOTES - ANSWER ANY FOUR QUESTIONS 4 X 5 = 201. What is jaundice? Mention its types, etiology and diagnosis. 2. Hypertensive heart disease. 3. Leprosy and its types. 4. Poliomyelitis. 5. Factors promoting wound healing. **II. SHORT ANSWERS** $10 \ge 3 = 30$ 6. Metaplasia 7. Granulomatous Inflammation. 8. Embolism – types, fate and its effects. 9. Lab diagnosis of anemia. 10. Give some example of occupational lung diseases. 11. Components of Fallots Tetralogy. 12. Chronic venous congestion of liver. 13. Hematopoesis regulators 14. Mention different types of infarctions with examples. 15. Alcoholic liver diseases. QP CODE: 5192, SECTION - B, MICROBIOLOGY(RS -2 SCHEME) (WRITE IN RED ANSWERBOOK) I.SHORT NOTES - ANSWER ANY FOUR QUESTIONS 4 X 5 = 201. Classify immunoglobulins. Write about IgG immunoglobulin. 2. Humoral immunity and its functions. 3. Moist heat sterilisation. 4. Type I hypersensitivity. 5. Hospital acquired infections. **II.SHORT ANSWERS** 10X3=306. What is a pandemic? Give two examples. 7. Name three chemical disinfectants. 8. Antibiotic susceptibility testing. 9. IgM immunoglobulin. 10. Vibrio cholera. 11. Name three infections caused by Staphylococcus. 12. Write three uses of ELISA. 13. Name three infections caused by Streptococcu.s 14. Shigella. 15. Name three viral infections transmitted through blood. \*\*\*\*\*\*

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA COURSES, QP CODE: 4101, PHYSICS(RS -2 SCHEME)

### (WRITE IN GREEN ANSWERBOOK)

### TIME: 3 HRS

### **MAX. MARKS: 100**

### I. SHORT NOTES. Answer any EIGHT questions.

 $8 \ge 5 = 40$ 

- 1. State and explain the law of conservation of momentum.
- 2. What is friction? Mention the advantages and disadvantages of friction.
- 3. What are isothermal and adiabatic processes?
- 4. State and explain Pascal's law with example.
- 5. Match the following
  - i) Energy PV=a constant
  - ii) Speed Kelvin
  - iii) Conduction Distance/time
  - iv) Temperature Joule
  - v) Boyle's law Heat transfer in solids
- 6. Explain total internal reflection.
- 7. Derive an expression for capacitors in series.
- 8. What is P-N junction? Explain forward bias.
- 9. Write a note on radioactivity.
- 10. Multiple choice questions
- a) Number of vibrations made by the particle in one second is .....
  - i) Period ii) Frequency iii) Wavelength iv) Amplitude
- b) S.I Unit of resistance is.....
  - i) Volt ii) Ohm iii) Coulomb iv) Watt
- Fast moving electrons suddenly stopped by a target produce ...... c) X-rays ii) α-rays iii)  $\beta$ -rays iv)  $\gamma$ -rays i)
- d) Device used to measure electric current is..... i) Voltmeter ii) Ammeter iii) Transistor iv) Inductors
- A perfect gas is one which obeys..... e)
  - i) Boyle's law ii) Charles' law iii) Both Boyle's law and Charles' law iv) Pascal's law

#### Π. SHORT ANSWERS

- 11. Explain dimension with example.
- 12. Define centripetal and centrifugal force.
- 13. What is power? Explain with unit.
- 14. Define osmosis and diffusion.
- 16. Describe potential energy with example 17.What are medical gases? Give example.
- 18. What is a lens? Explain the types.
- 19. Write a note on dispersion.
- 20. Fill in the blanks
  - Energy possessed by the body by virtue of its motion is..... i)
  - Distance between principal focus and optic centre is ..... ii)
  - Force between the molecules of different substances is..... iii) 22. What are cathode rays? Mention the properties.
- 21. Write a note on atomic structure.
- 23.Write the types of photocells and uses.
- 25, What are transverse waves? Explain.
- 26.Write a note on colorimeter.,
- 27. Explain n-type semiconductors.

24.Mention the uses of thermistor.

15. Write a note on viscosity.

- 29. Write a note on Laser.
- 28. Write the properties of sound. 30. Answer in one word / sentence
  - Which is the mode of heat transfer in liquids? i)
  - Define angle of contact. iii) What is modulus of elasticity? ii)

- $20 \times 3 = 60$

7. Functions of Saliva	
8. Draw a neat labeled diagram of Eye ball (cross section). Add a n	ote on
Myopia.	
I. WRITE SHORT ANSWERS 5	X 2=10
9. Two functions of spleen	
10. Name two bones of middle ear	
11. Name any two abnormal constituents of urine	
12. Give the normal values of <b>A</b> )Blood Pressure <b>B</b> ) Pulse Rate	
13. List any two differences between systemic and pulmonary circu	lation
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### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY QP CODE: 2101 SECTION -A, ANATOMY (RS -1 SCHEME) (WRITE IN<u>BLUE</u>ANSWER BOOK)

## TIME: 3 HRS

# MAX. MARKS: 90

1X10=10

5 X 2=10

5 X5 = 25

1. Name the parts Male Reproductive System. Write briefly about testis.

### 2. Mention the parts of Respiratory System. Write briefly about right lung. 5 X5 = 25

# **II. WRITE SHORT ESSAYS ON ANY FIVE**

I. LONG ESSAY- ANSWER ANY ONE

- 3. Trachea
- 4. Histology of Liver
- 5. Small Intestine
- 6. Cerebrum
- 7. Kidney
- 8. Histology of Stomach
- 9. Thyroid gland

# **III. WRITE SHORT ANSWERS**

- 10. Name any four muscles of upper limb.
- 11. Femur bone
- 12. Epithelial tissue
- 13. Uterus
- 14. Write neat labelled diagram of heart

### QP CODE: 2102 SECTION -B, PHYSIOLOGY(RS -1 SCHEME) (WRITE IN REDANSWER BOOK) 1X10=10

#### LONG ESSAY- ANSWER ANY ONE I.

- 1. Define Anemia. Describe different types of Anemia.
- 2. Describe transport of Oxygen in blood. What is Hypoxia?

# **II. WRITE SHORT ESSAYS ON ANY FIVE**

- 3. Functions of cerebral cortex
- 4. Pregnancy tests
- 5. Factors affecting Cardiac output
- 6 Functions of Skin
- e on

# II

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA COURSE INMEDICAL LABORATORY TECHNOLOGY QP CODE: 5101 SECTION -A, ANATOMY(RS -2 SCHEME) (WRITE IN <u>BLUE</u> ANSWER BOOK)

### TIME: 3 HRS

MAX. MARKS: 100

4X5=20

10 X3 = 30

4X5=20

10 X3 = 30

## I. SHORT ANSWERS- ANSWER ANY FOUR

- 1. Describe the heart in detail
- 2. Mention the parts of the urinary system and explain the kidney in detail
- 3. Biceps brachii muscle
- 4. Mention the lymphoid organs and explain palatine tonsil in detail.
- 5. Describe the hip joint

## II. SHORT NOTES

- 6. Name the long bones in upper limb
- 7. Types of cartilage with examples
- 8. Mention the movements at the knee joint
- 9. Great saphenous vein
- 10. Lumbar puncture
- 11. Mention the female reproductive organs
- 12. Mention any 3 types of epithelia with examples
- 13. Write the differences between right and left lung
- 14. Name the muscles of the anterior abdominal wall
- 15. Name the major salivary glands

## QP CODE: 5102 SECTION -B, PHYSIOLOGY(RS -2 SCHEME) (WRITE IN <u>RED</u> ANSWER BOOK)

### I. SHORT NOTES - ANSWER ANY FOUR

- 1. Conducting System of the Heart.
- 2. Erythropoiesis. Definition & stages.
- 3. Mechanisms of transport across cell membrane.
- 4. Draw a neat labelled diagram of Nephron. List its function.

### 5. Defecation reflex.

- II. SHORT ANSWERS
- 6) Normal value of A) RBC B)WBC C) Platelets.
- 7) Neuron.
- 8) Functions of Plasma Proteins.
- 9) Define Osmosis. Give two examples.
- 10) Three Contraindications of Blood Transfusion.
- 11) Surfactant. List three functions.
- 12) Functions of Stomach.
- 13) Name three hormones of Anterior Pituitary.
- 14) Functions of Skin.
- 15) Three Contraceptive methods in Male.

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY QP CODE: 2121 (RS -1 SCHEME) GENERAL PHYSICS (WRITE IN <u>BLUE</u> ANSWER BOOK) TIME: 1.30 HRS MAX. MARKS: 45

### I. LONG ESSAY – ANSWER ANY <u>ONE</u> $1 \times 10 = 10$

- 1. What are the various interactions of X ray with matter? Describe with neat diagrams.
- 2. What is electromagnetic radiation? Describe the electron concept.

### II. SHORT NOTES - ANSWER ON ANY <u>FIVE</u> $5 \times 5 = 25$

- 3. Rotating anode
- 4. Space charge effect
- 5. Ohm's law
- 6. Step up and Step down transformers
- 7. Solid state rectifiers
- 8. Ammeter and Voltmeter

### **III. SHORT ANSWERS**

### 5 X 2 = 10

- 9. Inverse square law
- 10. Law of conservation of energy
- 11. Stationary anode
- 12. Insulators
- 13. Add a note on fuse resistors

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY QP CODE: 2141(RS -1 SCHEME) MEDICAL RECORD SCIENCE (WRITE IN <u>GREEN</u> ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 90

### I. LONG ESSAY - ANSWER ANY TWO

- 1. Explain major functions of Medical Records Department?
- 2. Write about the right of the arrested person?
- 3. Explain the Values of Medical Records to Each of the following a) Patient b) Treating Doctor c) Hospitals and Research

### II. SHORT NOTES - ANSWER ANYTEN

- 4. Retention period of Medical Records
- 5. Assembling & Deficiency Check
- 6. Location of miss files
- 7. Duties & Responsibilities of M.R.T
- 8. Qualitative & Quantitative Analysis
- 9. Complete & Incomplete Records
- 10. List out the Special & General Forms
- 11. Differentiate between summons & warrant
- 12. Bailable & Non-bailable offences
- 13. Write about the preparing summoned records for the court
- 14. Compoundable & Non-Compoundable offences
- 15. Write about the Indexes and its importance

### **III. SHORT ANSWERS**

- 16. Pleader
- 17. Legal Representative
- 18. Hospital Number
- 19. Brought Dead
- 20. Daily Census
- 21.F.I.R
- 22. Master Index Card
- 23. Judgment
- 24. Decree
- 25. Tracer Card

### 2 x 10 = 20

10x5 = 50

 $10 \ge 2 = 20$ 

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN **OPERATION THEATRE TECHNOLOGY** QP CODE- 2131 (RS -1 SCHEME) FUNDAMENTALS OF OT & BASIC CONCEPTS IN SURGERY (WRITE IN GREEN ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 90 I. LONG ESSAY-ANSWER ANY TWO 2x10=201. Describe sterilization and disinfection. Explain CSSD. 2. Describe the preservation of the specimen and handling of the specimen to be sent for histopathology and microbiology. 3. Innumerate the different types of suture materials. Write the concept in laparoscopic surgery SHORT NOTES- ANSWER ANY TEN II. 10x5=50

- 4. Skin grafting
- 5. Sterile team members
- 6. Ultrasonography
- 7. Various types of cautery and precautions in using cautery
- 8. Wound infection
- 9. Patients skin preparation
- 10. Circumcision
- 11. Wound dressing
- 12. Pulse oximeter
- 13. Fumigation
- 14. Exchange areas in OT
- 15. Positions in surgery

## **III. SHORT ANSWERS**

- 16. Cannulas
- 17. Disinfection
- 18. Occupational hazards in OT persons
- 19. Vacuum suction
- 20. Manifold room
- 21. MRI
- 22. C-Arm
- 23. Gowning
- 24. Three techniques of draping
- 25. Endoscopy

10X2=20

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN **OPHTHALMIC TECHNOLOGY** QP CODE- 2161, (RS -1 SCHEME) **OPHTHALMOLOGY PAPER-I** (WRITE IN GREEN ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 90

# I. LONG ESSAY – ANSWER ANY <u>TWO</u>

- 1. What is BSV? Write grades of BSV.
- 2. What is Aphakia? Signs of Aphakia.
- 3. Draw a labelled Diagram of Bifocals and progressives. What are different types of Bifocals?

## II. SHORT NOTES- ANSWER ANY TEN

- 4. Write a note on Objective retinoscopy
- 5. Drainage of Aqueous Humor.
- 6. How to check colour vision? What is the importance.
- 7. Uses of Prism in Ophthalmology
- 8. Write components of Vision. Write a note on methods to check Visual Acuity.
- 9. What is pinhole? Write the principle of pinhole.
- 10. Write anatomy of lens. Write a description of its layers.
- 11. What are causes of Ambylopia?
- 12. Aqueous Humor production.
- 13. Anatomy of Ciliary body
- 14. What is Astigmatism? Types of Astigmatism.
- 15. Anatomy of Pupillary Pathway.

# **III. WRITE SHORT ANSWERS**

- 16. Write 3 types of refractive errors.
- 17. Write 3 layers forming the eye.
- 18. Write 3 components of tear film.
- 19. Mention 3 advantages of Progressives
- 20. Mention 3 methods to correct Myopia
- 21. Mention 2 methods to correct presbyopia
- 22. Mention 2 components of Biometry.
- 23. Mention 2 types of materials used in spectacle making
- 24. Types of near reading charts
- 25. Parts of Retina.

## 10X2=20

10X5 = 50

2X10 = 20

KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULAT	(ION) AUTHORITY
PARAMEDICAL BOARD, BENGALURU	J
SUPPLEMENTARY EXAMINATION, JANUAR	XY 2020
I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE	IN DIALYSIS
TECHNOLOGY	
QP CODE- 2151, (RS -1 SCHEME)	
SECTION-A, PHARMACOLOGY	
(WRITE IN <u>BLUE</u> ANSWER BOOK)	
TIME: 3 HRS MA	X. MARKS: 90
I. LONG ESSAY- ANSWER ANY <u>ONE</u>	1x10=10
1. Name five <b>Anti Tubercular drugs</b> Mention two uses, two ac	lverse effects
and one contraindication of Rifampicin.	
2. Name six <b>Antidiabetic drugs</b> . Mention twouses ,two adverse	effects of
insulin.	
II. SHORT NOTES- ANSWER ANY <u>FIVE</u>	5x5=25
3. Intravenous route of drug administration	
4. Aspirin	
5. Diazepam	
<ol> <li>Aminoglycoside antibiotics</li> <li>Vitamin D</li> </ol>	
8. Morphine.	
III. WRITE SHORT ANSWERS	5x2=10
9. Name two live Attenuated Vaccines.	572 10
10. Two uses of formaldehyde	
11. Mention two drugs for Organophosphorous poisoning	
12. Name Two flavouring agents	
13. Name two disadvantages of Oral drug administration	
QP CODE- 2152, SECTION-B, THEORY OF DIALYSIS(R	S -1 SCHEME)
(WRITE IN <u>RED</u> ANSWER BOOK)	
I. LONG ANSWER – ANSWER ANY <u>ONE</u>	1X10=10
<b>1.</b> List the various anticoagulant protocols and monitoring in he	2
Write briefly on newer anticoagulants and their use in hemoc	lialysis.
<b>2.</b> Explain the maintenance of records in dialysis unit.	
II. SHORT NOTES ON ANY <u>FIVE</u>	5X5 =25
3. Write the composition of the dialysate used in hemodialysis.	
4. Reverse osmosis	
5. List the principles of hemodialysis and explain diffusion.	
6. Chronic hemodialysis prescription 7. SLED	
8.Lab investigations done in a patient on hemodialysis.	
III. WRITE SHORT ANSWERS	5X2=10
9. Give 2 indications of starting dialysis in chronic renal failure	
10. Name 2 sites for insertion of temporary hemodialysis cathete	rs
11. Define ultrapure water	
12. Two causes of sudden onset of unconsciousness during Hem	odialysis.
13. Management of intradialytic hypotension – any two	2
******	

# KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN DENTAL **MECHANICS OP CODE-2171, DENTAL MATERIALS & METALLURGY** (RS -1 SCHEME) (WRITE IN BLUE ANSWER BOOK) MAX. MARKS: 45 **TIME: 1.30 HRS** I. LONG ESSAY - ANSWER ANY ONE 1 X 10 = 101) What is an alloy? Mention the various alloys used in prosthodontics.Write in brief about base metal alloys. 2) Classify gypsum products and describe in detail about type II gypsum product. SHORT NOTES- ANSWER ANY FIVE $5 \times 5 = 25$ II. 3) Annealing and tempering 4) Properties of heat cure acrylic resin. 5) Reversible hydrocolloid 6) Uses of zinc phosphate cement 7) Types of stainless steel 8) Soldering and welding 9) Addition silicon impression material **III. WRITE SHORT ANSWERS** 5 X 2 = 1010) Electroplating 11) Nickel Chromium alloys 12) Ni-Ti wires 13) Divestment 14) Soldering

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### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN DENTAL HYGIENE QP CODE- 2181, SECTION-A, GENERAL ANATOMY AND HISTOLOGY(RS -1 SCHEME) (WRITE IN BLUE ANSWER BOOK)

### TIME: 1.30 HRS

## I. LONG ESSAY – ANSWER ANY <u>ONE</u> $1 \times 9 = 9$

- 1. Name the bones of the skull. Write briefly about mandible.
- 2. Name the muscles of facial expression. Write briefly about 7<sup>th</sup>(facial) cranial nerve.

### II. SHORT NOTES - ANSWER ANY <u>TWO</u> $2 \times 5 = 10$

- 3. Maxilla bone
- 4. 5<sup>th</sup>( trigeminal) cranial nerve
- 5. Tongue

### III. SHORT ANSWERS $3 \times 2 = 6$

- 6. Name the types of muscles
- 7. Pituitary gland
- 8. Name muscles of mastication

# QP CODE- 2182, SECTION-B, GENERAL PHYSIOLOGY (RS 1 SCHEME) (WRITE IN <u>RED</u>ANSWER BOOK)

- I. SHORT NOTES ANSWER ANY <u>FOUR</u> 4X4=16
- 1. Parts of brain and their functions
- 2. Functions of Blood
- 3. Mechanism of action of Hormone
- 4. Functions of cerebrum
- 5. Composition of saliva
- 6. Phonation

### **II. SHORT ANSWERS**

- 7. Give the normal values of **A**) Bleeding time **B**)Clotting time
- 8. Draw a neat Labelled diagram of Neutrophil.

2x2=4

0 + 5 - 10

lible.

MAX. MARKS: 45

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY QP CODE- 5121, (RS -2 SCHEME) RADIATION PHYSICS (WRITE IN <u>GREEN</u> ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 100

### TIME: 3 HRS I. SHORT NOTES- ANSWER ANY <u>EIGHT</u>

1. Construction and working of step down transformer

- 2. Define purpose and mechanisms of Rectification
- 3. Explain different target interactions in X-ray production.
- 4. Explain common terms related to the X-ray beam.
- 5. Explain photodisintegration.
- 6. Types of acquisition, operation and techniques of digital fluoroscopy.
- 7.Write note on photoelectric effect.
- 8. Mention the factors that affect emission spectra.
- 9. Explain the conditions necessary for X-ray production.
- 10. State working principle of MRI

## **II .SHORT ANSWERS**

- 11. Atomic number
- 12. Step up transformer.
- 13. Alpha emission in radioactivity.
- 14. Spatial resolution.
- 15. Define single and three phase AC
- 16.Stationary anode tube
- 17. Write note on atom
- 18.Define resistance
- 19. Write note on AEC
- 20. Define: primary, secondary and scattered radiation
- 21. Filament circuit.
- 22.Kvp
- 23.mA
- 24.Mammography
- 25. Compton scattering
- 26.Magnification
- 27. Brightness gain
- 28.Electromagnetic radiation.
- 29.Write note on techniques used in cooling X-ray tube.
- 30. State working principle of CT.

20x3=60

8x5 = 40

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN OPERATION THEATRE & ANESTHESIA TECHNOLOGY

#### QP CODE- 5131 (RS -2 SCHEME) FUNDAMENTALS OF OT & BASIC CONCEPT IN SURGERY (WRITE IN <u>GREEN</u> ANSWER BOOK)

#### TIME: 3 HRS

#### MAX. MARKS: 100

## I. SHORT NOTES- ANSWER ANY EIGHT

- 1. Methods of Sterilization.
- 2. Pros and Cons of disposables.
- 3. Manifold room concept, supply of gases.
- 4. Preparation of operative site and draping.
- 5. Wound management and method of haemostasis.
- 6. Universal precautions in handling the instrument.
- 7. CSSD
- 8. Surgical scrubs
- 9. Sterile team members
- 10. Radiation hazards and safe guards

#### **II.SHORT ANSWERS**

- 11. Supply of gases
- 12. Iodine
- 13. Receiving patients and identification
- 14. Ryles tube (Nasogastric tube) Uses
- 15. Gowning
- 16. Pre operative planning
- 17. Sitz bath
- 18. Check list
- 19. Harmonic scalpel
- 20. Pulse oximeter
- 21. Sims position
- 22. Types of suture materials
- 23. Bioburden
- 24. Vacuum suction
- 25. Various types of cautery and precautions in using cautery
- 26. Care and handling of instruments
- 27. Unscrubed team members
- 28. Preparation of patients for surgery
- 29. Parameters of sterilization
- 30. Prevention of infection

20x3=60

8x5 = 40

#### \*\*\*\*\*\*

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN DIALYSIS TECHNOLOGY QP CODE- 5151, SECTION-A, APPLIED PHARMACOLOGY (RS -2 SCHEME)

#### (WRITE IN <u>BLUE</u> ANSWER BOOK)

#### TIME: 3 HRS

#### I. SHORT NOTES - ANSWER ANY <u>FOUR</u>

- 1. Mention the advantages and disadvantages of Intra-Venous route of Drug administration.
- 2. Mention the uses, precautions and contraindications of Morphine.
- 3. Diazepam
- 4. Mention the uses and adverse effects of Erythropoietin.
- 5. Mention the uses and contraindications of Heparin.

#### **II. SHORT ANSWERS**

- 6. Mention two uses and two adverse effects of Atropine
- 7. Mention three uses and three adverse effects of Furosemide.
- 8. Mention three drugs used in hypertensive urgency.
- 9. Mention the uses and adverse effects of Metoclopramide.
- 10. Pantoprazole.
- 11. Mention the uses and adverse effects of Insulin
- 12. Mention three local anaesthetics
- 13. Mention three uses of Adrenaline
- 14. Mention three B-Lactum antibiotics
- 15. Hepatits B Vaccine.

#### QP CODE- 5152, SECTION-B, THEORY OF DIALYSIS(RS -2 SCHEME) (WRITE IN <u>RED</u> ANSWER BOOK)

- I. SHORT NOTES ANSWER ANY <u>FOUR</u>
- 1. Describe a peritoneal catheter (Types and parts) with a neat labelled diagram.
- 2. Heparin- Molecular size, types, uses, adverse effects and contraindications.
- 3. Describe in brief about blood circuit with its sensors.
- 4. Describe various alarms in HD machine with their significance.
- 5. Disinfection of haemodialysis machine- types, agents used and indications for disinfection.

#### II. SHORT ANSWERS

- 6. Compartments in body fluid composition
- 7. What is online haemodiafiltration?
- 8. What is surface cleaning of dialysis machine?
- 9. What are high flux dialyzers?
- 10. What is osmosis?
- 11. Mention levels of consciousness of a patient.
- 12. What are the types of dialysis catheters?
- 13. Types of renal failure
- 14. K<sub>UF</sub> (Co efficient of ultrafiltration)
- 15. What is reverse osmosis?

10X3=30

10X3=30

4X5 = 20

MAX. MARKS: 100

41X5 = 20

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY QP CODE: 5141, MEDICAL RECORD SCIENCE (RS -2 SCHEME) (WRITE IN <u>GREEN</u> ANSWER BOOK) MAX. MARKS:100

TIME: 3 HRS

8 x 5=40

- **SHORT NOTES ANSWER ANY EIGHT** I.
  - 1. Purpose and Uses of Medical records
  - 2. Basic Medical Records forms
  - 3. Organization of Medical record department
  - 4. Cognizabe and Non cognizable offence
  - 5. Oral evidence and documentary evidence
  - 6. History of Medical records in India
  - 7.Complete and incomplete medical records
  - 8. Types of filing system and write a note on Middle digit filing
  - 9. Functions of Medical records department
  - 10.Out patient and inpatient services

#### II. SHORT ANSWERS

- 11.Effect of non production of documents
- 12. Personal and impersonal records
- 13. Summons and warrant
- 14. Discharge summary
- 15. Accession register
- 16. Accident register
- 17.Birth register
- 18. Malpractice suits
- 19. Common deficiencies found in case sheets & procedure to complete
- 20.Duties and responsibilities of Medical record officer
- 21.Internal and external audit
- 22.Procedure for disposal of Medical records
- 23.Forms control program
- 24.Discharge analysis
- 25.Formula for Gross death rate and net death rate
- 26.Formula for calculation of bed occupancy rate and Average inpatients per day
- 27.Diagnostic index and operation index
- 28. Types of courts in India
- 29.Midnight census and its uses
- 30. Function of emergency medical services (EMS)

20x3=60

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY QP CODE: 5161, OPHTHALMOLOGY PAPER-I(RS -2 SCHEME) (WRITE IN <u>GREEN</u> ANSWER BOOK)

#### TIME: 3 HRS

MAX. MARKS:100 8 x 5=40

- **I. SHORT NOTES ANSWER ANY <u>EIGHT</u> 1.** Define myopia. Describe Clinical Types of Myopia
- 2. Name Cycloplegic Eye drops and describe their uses
- 3. Define Presbyopia. Describe Optical Correction of Presbyopia
- 4. Describe principle & uses of Snellen`s Chart
- 5. Draw a neat Labelled Diagram of Cut Section Of eyeball
- 6. Advantages of Contact Lenses over Spectacles
- 7. What Is Lasik Procedure? Mention its Uses
- 8. High Index Lenses
- 9. Formation & drainage of aqueous humour
- 10. Low visual aids and uses

## **II. SHORT ANSWERS**

- 11. Draw a neat labelled diagram of cut section of eyelid
- 12. Describe 3 Methods of recording Intra ocular pressure
- 13. Layers of Tear Film
- 14. Name Extra Ocular Muscles and their Nerve Supply
- 15. Optical Correction of Aphakia
- 16. Fogging Technique
- 17. Duochorme Test
- 18. How to Identify a Convex Lens
- 19. Components of accommodation
- 20. Jackson`s cross Cylinder & its Uses
- 21. Write simple transposition of lens +2D sphere -1 D Cylinder at 90 Degree axis
- 22. Lenticular Lenses
- 23. Draw neat Diagram of optics of myopia
- 24. Describe different Designs of Spectacle Frame
- 25. Material Used for spectacle Frame
- 26. Trial Set
- 27. Layers of cornea
- 28. Mention Different Stereo acuity Tests
- 29. Types of colour Blindness
- 30. Types of Perimeter

#### \*\*\*\*\*\*

20x3=60

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS QP CODE: 5171, DENTAL MATERIALS & METALLURGY (RS -2 SCHEME) (WRITE IN <u>BLUE</u> ANSWER BOOK)

#### **TIME: 1.30 HRS**

I.

MAX. MARKS: 50 4X5=20

1. Difference between self cure and heat cure acrylic resin.

SHORT NOTES -ANSWER ANY FOUR QUESTIONS

- Classification of gypsum and write theories of setting reaction of gypsum.
- 3. Inlay waxes.
- 4. Phosphate bonded investment material.
- 5. Classify impression material and write about Impression Compound.

#### II. SHORT ANSWERS

- 6. Uses and types of separating media
- 7. Annealing.
- 8. Die
- 9. Suck back porosity
- 10. Types of flux
- 11. Beading and boxing waxes.
- 12. Different types of duplicating material
- 13. Dust free alginate.
- 14. Forms of silica
- 15. Classify denture base materials

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10X3=30

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN DENTAL HYGIENE QP CODE: 5181,SECTION-A, GENERAL ANATOMY, HISTOLOGY (RS -2 SCHEME) (WRITE IN <u>BLUE</u> ANSWER BOOK) TIME: 1.30 HRS MAX. MARKS: 50

# I. SHORT NOTES -ANSWER ANY <u>TWO</u> QUESTIONS 2X5=10 1. Describe mandibular nerve 2. Describe epithelial tissue with examples 3. Describe gross anatomy of tongue II. SHORT ANSWERS 5 x 3 = 15 4. Histology of tooth 5. Mention the branches of facial nerve

- 6. Name the muscles of mastication
- 7. Mention any six bones of skull
- 8. Name the endocrine glands

#### QP CODE: 5182, SECTION-B, GENERAL PHYSIOLOGY (RS -2 SCHEME) (WRITE IN <u>RED</u> ANSWER BOOK)

## I. SHORT NOTES -ANSWER ANY <u>TWO</u> QUESTIONS

- 1. Explain the functions of Saliva
- 2. Draw neat labelled diagram of reflex arc. Give ONE example of reflex action
- 3. List the hormones secreted by Pituitary gland. Write the functions of any one of those hormones

## **II. SHORT ANSWERS**

- 4. Define active transport. Give one example
- 5. Define Blood pressure. Give normal value
- 6. Name the muscles of respiration
- 7. List THREE Functions of blood
- 8. List the primary tastes

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 $5 \times 3 = 15$ 

2X5 = 10

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA IN PHYSIOTHERAPY QP CODE: 4191, ANATOMY(RS -2 SCHEME) (WRITE IN <u>GREEN</u> ANSWER BOOK)

#### TIME: 3 HRS

MAX. MARKS: 100

#### I. SHORT NOTES- ANSWER ANY <u>EIGHT</u>

 $8 \times 5 = 40$ 

- 1. Ligaments of knee joint
- 2. Structures under the cover of Deltoid Muscle
- 3. Popliteal fossa
- 4. Lower part of the Humerus
- 5. Synovial joint
- 6. Coeliac trunk
- 7. Pericardium
- 8. Bronchopulmonary segments
- 9. Thyroid gland
- 10. Spinal cord

#### **II. SHORT ANSWERS**

- 11. Name the parts of Brainstem
- 12. Name the anatomical planes
- 13. Bicipital groove
- 14. Draw a neat labelled diagram of Transitional epithelium
- 15. Name the layers of Eye ball
- 16. Name the layers of Scalp
- 17. Name the Extraocular muscles
- 18. Name the parts of Stomach
- 19. Name the Intercostal muscles
- 20. Name the coverings of Spinal cord
- 21. Name the muscles of Tongue
- 22. Name the openings present in the Diaphragm
- 23. Name the contents of the Adductor canal
- 24. Name the types of Parietal pleura
- 25. Patella
- 26. Name the factors maintaining Arches of foot
- 27. Nerve supply of Hand
- 28. Classification of bone
- 29. Draw a neat labelled diagram of Blood supply of Stomach
- 30. Name the parts of Internal capsule

 $20 \ge 03 = 60$ 

# KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT) **QP CODE: 3102, PATHOLOGY (RS-1 SCHEME)**

(WRITE IN GREEN ANSWER BOOK)

## TIME: 3 HRS

I.LONG ESSAY: ANSWER ANY TWO

- 1. Write a note on separation and uses of various components of blood. Mention the blood transfusion reactions.
- 2. Describe gross and microscopic examination of semen. Draw a neat labeled diagram of normal sperm.
- 3. Describe procedure for hematoxylin preparation. Write a note on hematoxylin and eosin staining technique.

## **II. SHORT ESSAY- ANSER ANY TEN**

- 4. Mounting of museum specimen.
- 5. Osmotic fragility test
- 6. Microwave tissue processing.
- 7. Mention the sites for bone marrow examination. Mention the needles used.
- 8. Write a note on CSF examination.
- 9. Describe the demonstration of BARR bodies.
- 10. Write a note on procedure and importance of Prothrombin Time (PT).
- 11. Donor selection criteria.
- 12. FNAC (Fine Needle Aspiration Cytology).
- 13. Describe sputum examination in cytology.

14. Describe the staining procedure and uses of PAS (Periodic acid Schiff) stain.

15. Quality control in Blood banking.

# **III. SHORT ANSWERS**

16. Uses of Coomb's test.

17. Mention normal bleeding time and clotting time

- 18. Mention components of blood
- 19. Estimation of fetal haemoglobin.

20. Sickling test.

- 21. Mention types of hematoxylins
- 22. Which two authorities control blood bank.
- 23. Mention four special stains used in histopathology.
- 24. Mention the blood group systems.

25. Mention two indications for frozen sections.

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#### 10x2=20

2X10=20

MAX.MARKS: 90

10x5=50

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA INMEDICAL LABORATORY TECHNOLOGY (DMLT) QP CODE: 6103, PATHOLOGY (RS-2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### I. SHORT NOTES: ANSWER ANY <u>EIGHT</u>

- MAX.MARKS: 100 8X5=40
- 1. Indication and contraindication for Bone marrow aspiration.
- 2. Write in detail about mechanism of normal coagulation.
- 3. Osmotic fragility test.
- 4. Differential Leucocyte count.
- 5. PT and APTT.
- 6. Write in detail about Transfusion reaction.
- 7. Quality control in Histopathology.
- 8. Frozen section.
- 9. Mounting of Museum specimens.
- 10. Hospital waste management.

#### II. SHORT ANSWERS.

11. Staining of bone marrow slides.

12. FoetalHb.

- 13. Causes of neutrophilia.
- 14. Laboratory Information System (LIS).
- 15. Mention the normal values of coagulation tests.
- 16. Materials required for bone marrow examination.
- 17. Normal values of DC.
- 18. Giemsa stain procedure.
- 19. Anticoagulants.
- 20. Automation in coagulation tests.
- 21. Organization of Blood bank.
- 22. Cross matching.
- 23. Screening tests for donar.
- 24. Separation of components.
- 25. Transfusion reaction.
- 26. Disposal of unused Blood.
- 27. Clearing.
- 28. Alcian blue stain.
- 29. Mounting solutions used in Museum.
- 30. Different types of Haematoxylins.

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#### 20X3=60

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI) QP CODE: 3112, COMMUNITY MEDICINE, PAPER-II (RS-1 SCHEME) (WRITE IN GREEN ANSWER BOOK) TIME: 3 HRS MAX.MARKS: 90

#### I.LONG ESSAY: ANSWER ANY TWO

- 1. What is Malnutrition? How to know if a child is malnourished? What to do to Prevent Malnutrition at community level?
- 2. What is family planning? Discuss various methods used for family planning.
- 3. Write about risk factors and complications of Diabetes Mellitus. Add a note on Prevention of Diabetes Mellitus.

#### II.SHORT NOTES- ANSWER ANY TEN

- 4. Alcoholism in society
- 5. What are the health effects from swimming pool? Write about swimming pool sanitation
- 6. Recommended dietary allowance (RDA)
- 7. Disability limitation and rehabilitation
- 8. Health problems of the aged women
- 9. List the name of screening tests for pregnant women and Newborn babies.
- 10. Beneficiaries of Anganwadi Centre
- 11. Benefits of Breast Feeding
- 12. Kayakalpa Awards
- 13. Designated microscopic centres (DMC)
- 14. Stages of disaster cycle
- 15. Benefits under Employees State Insurance act

#### **III. SHORT ANSWERS**

- 16. Palliative care
- 17. Expand AYUSH
- 18. Epidemic, Endemic, Pandemic
- 19. Do's and Don'ts after snake bite
- 20. What is the temperature range of Ice lined refrigerator and Deep freezer
- 21. Breast Self Examination
- 22. Junk food
- 23. List three bio medical wastes to be put in yellow bin
- 24. Registration of births and deaths
- 25. Bleaching powder

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 $10 \times 2 = 20$ 

 $10 \times 5 = 50$ 

#### 2X10=20

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN HEALTH INSPECTOR (DHI) QP CODE: 6113, COMMUNITY MEDICINE, PAPER-II(RS-2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

MAX.MARKS: 100

I. SHORT NOTE- ANSWER ANY EIGHT

 $8 \times 5 = 40$ 

- 1. School health programme
- 2. Medical Termination of Pregnancy Act
- 3. Behavioral problems in Children
- 4. Describe the causes of maternal mortality in India. Add a note on its preventionand control.
- 5. Risk factors and preventive measures for low birth weight babies
- 6. Postnatal complication
- 7. Community Needs Assessment Approach
- 8. Services in adolescent health clinics
- 9. Baby friendly hospitals initiatives
- 10. Abortion causes and types

#### **II. SHORT ANSWERS**

- 11. Eligible couples
- 12. Weaning
- 13. No scalpel vasectomy
- 14. Juvenile Delinquency
- 15. Mass media of communication
- 16. Role play/ street play
- 17. List the causes of communication barrier
- 18. Write about "personnel hygiene" advice to pregnant lady
- 19. Adolescent health problems
- 20. Danger signals in intranatal care
- 21. Growth rate
- 22. The Child Labour (Prohibition and regulation) Act 1986.
- 23. Write about first aid in Injured victims in disaster
- 24. Write drugs commonly used by health inspector
- 25. Management dehydration in child
- 26. Objectives of antenatal care
- 27. Uses of condom
- 28. Child abuse and its prevention
- 29. Net reproduction rate.
- 30. Advantages of home visits

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 $20 \times 3 = 60$ 

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 **II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN** MEDICAL X-RAY TECHNOLOGY (DMXT) QP CODE: 3122, RADIOGRAPHY INCLUDING MEDICAL RECORDS (RS-1 SCHEME) (WRITE IN GREEN ANSWER BOOK) MAX.MARKS: 90

#### TIME: 3 HRS

#### I. LONG ESSAY – ANSWER ANY TWO

1) Describe the procedures and indications of micturating cystourethrogram.

2) Write in detail about fluoroscopy.

3) What are the indications of Barium meal follow through? and write in detail about the procedure.

#### **II. SHORT NOTES- ANSWER ANY TEN**

- 4) Myelography
- 5) Transducer
- 6) X-ray tube
- 7) PACS
- 8) Oesophagus
- 9) Swimmer's view
- 10) Neat diagram of broncho-pulmonary segments
- 11) MMR
- 12) Sinogram
- 13) General radiography views
- 14) Use of Bucky
- 15) Non-ionic contrast

#### **III. SHORT ANSWERS**

- 16) X-Ray centering
- 17) Stationary anode tube
- 18) Single emulsion film
- 19) Orthopantomogram
- 20) Safe light
- 21) Methods of dark room processing
- 22) Beam restrictors
- 23) Mammography
- 24) Photographic emulsion
- 25) Indications for Barium enema

2 X10 = 20

 $10 \ge 2 = 20$ 

 $10 \ge 5 = 50$ 

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT) QP CODE: 6123, (RS-2 SCHEME) SPECIAL PROCEDURES, RADIOGRAPHIC PHOTOGRAPHY AND MEDICAL RECORDS (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### MAX.MARKS: 100

 $8 \times 5 = 40$ 

#### I. SHORT NOTES- ANSWER ANY EIGHT

- 1. Barium enema and its uses
- 2. Care to be taken in using contrast media
- 3. Requirement of ultrasound as a special investigation of cardiovascular system
- 4. Bronchography
- 5. Explain barium swallow
- 6. Retrograde cystourethrography
- 7. Sinography
- 8. Mammography
- 9. Mobile radiography
- 10. Arteriography

#### II. SHORT ANSWERS

- 11. Micturating cystourethrography
- 12. Uses of barium studies
- 13. Types of cholangiography
- 14. Hypotonic duodenography
- 15. Oral cholecystography
- 16. Percutaneous transhepaticcholedochography
- 17. Lymphangiography
- 18. Fistulography
- 19. Barium swallow
- 20. Hysterosalphingography
- 21. Peripheral venography of upper limb
- 22. Intravenous urography
- 23. Role of MRI as special investigation of pelvic pathologies
- 24. Tomography
- 25. Theatre radiography
- 26. Barium sulphate
- 27. Arthrography
- 28. Foreign body localization
- 29. Percutaneous nephrostomy
- 30. Side effects of contrast agents

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 $20 \times 3 = 60$ 

KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULAT	ION) AUTHORITY	
PARAMEDICAL BOARD, BENGALURU		
SUPPLEMENTARY EXAMINATION, JANUARY 2020		
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN		
OPERATION THEATRE TECHNOLOGY (DOT	•	
QP CODE: 3132, OPERATIVE PROCEDURE (RS-1 SC (WRITE IN GREEN ANSWER BOOK)	newiej	
TIME: 3 HRS MAX.MA	RKS: 90	
I. LONG ESSAY - ANSWER ANY <u>TWO</u>	2X10=20	
1. Laparoscopic surgery, mention the advantages and name five		
surgeries done by laparoscopic methods		
2. Special features of orthopaedic surgery		
3. Define shock. Types of shock and explain in detail about hypo-	-	
volemic shock		
II WRITE SHORT NOTES ON ANY TEN	10X5=50	
4. Diabetic foot care		
5. Plaster of Paris(POP) slat and its application		
6. Bronchoscopy		
7. TURP		
8. Robotic surgery		
9. Retractors		
10. Burns		
11. Renal stones		
12. Sebaceous cyst		
13. What is transplantation? Describe the types of transplantation		
14. Hydrocele		
15. Buerger's disease (TAO)		
III WRITE SHORT ANSWERS	10X2=20	
16. Fissure in ano		
17. Universal precautions on surgery		
18. Indirect laryngoscopy		
19. Bowel preparation		
20. Debridement		
21. Traction for fracture		
22. Appendectomy		
23. Suction drain		
24. Sitz bath		
25. Abdominal drain		
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## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY (DOT &AT) QP CODE: 6133, OPERATIVE PROCEDURES (RS-2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### MAX.MARKS: 100

#### I. SHORT NOTE- ANSWER ANY <u>EIGHT</u>

- 1. Types of Abdominal incisions and their uses
- 2. Fracture femur
- 3. Mesh herniaplasty
- 4. Procedure of Fibroadenoma
- 5. MTP
- 6. Colostomy
- 7. G J and Vagotomy
- 8. Repair of tendons and ligaments
- 9. Liver Resections
- 10. Thyroidectomy

#### **II SHORT ANSWERS**

11. Haemorrhoidectomy

- 12. Lymph node Biopsy
- 13. Types of amputations
- 14. Incision and drainage
- 15. Caessaerian sections
- 16. Tonsillectomy
- 17. Cataract surgery
- 18. Foreign body nose
- 19. Tracheostomy
- 20. Endoscopy
- 21. Sitz bath
- 22. Indications for spleenectomy
- 23. Fistula in ano
- 24. Indication for above knee amputation
- 25. MRI
- 26. Care of Colostomy
- 27. Laser surgery
- 28. Nasal operative procedures
- 29. Indications for Open/ Lap Cholecystectomy
- 30. Pilonidal sinus

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20x3=60

 $8 \times 5 = 40$ 

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY (DMRT) QP CODE: 3142, HOSPITAL ADMINISTRATION (RS-1 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### I. LONG ESSAY – ANSWER ANY <u>TWO</u>

- 1. Define Structure of Emergency Department. Mention about Organization and Functions of Emergency department.
- 2. Organization and Functions of Blood Bank.
- 3. Mention the qualities of Hospital Administrator.

#### II. SHORT NOTES - ANSWER ANY<u>TEN</u>

- 4. Advantages and disadvantages of Health Insurance.
- 5. Role of Dietary department in a hospital.
- 6. Inventory control.
- 7. Hospital records as a Health Information System.
- 8. Functions of Primary Health Center.
- 9. Define Hospital waste. Write in detail health effects of improper handling of hospital waste.
- 10. Functions of nurses.
- 11. Ancillary services in Out-Patient Department.
- 12. Medical Audit.
- 13. Functions of Tertiary Care Hospital.
- 14. Forensic Department organization and function.
- 15. Role of Medico-social worker.

#### III. SHORT ANSWERS.

- 16. Define nosocomial infection.
- 17. Define delegation.
- 18.Write history of hospital in India.
- 19.Enumerate hospital committees.
- 20. Role of computers in MRD.
- 21. Mention personal protective measures in handling hospital waste.
- 22. What is quality control?
- 23. Cost-benefit Analysis.
- 24. Doctor-patient relationship.
- 25. What is actuating?

#### 2x10=20

10X2=20

10 x5=50

MAX.MARKS: 90

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 **III YEAR DIPLOMA IN** MEDICAL RECORDS TECHNOLOGY (DMRT) **QP CODE: 6143, HOSPITAL ADMINISTRATION (RS-2 SCHEME)** (WRITE IN GREEN ANSWER BOOK) TIME: 3 HRS MAX.MARKS: 100 SHORT NOTES - ANSWER ANY EIGHT I. 8x5=4001. What is Hospital Infection Control Committee? What are their responsibilities? 02. Patients' rights and responsibilities 03. Responsibilities of Hospital Administrator 04. Briefly Describe organization of outpatient department 05. Organization of Nursing Department 06. Standard Operating Procedure 07. Safe Injection practice 08. Hospital Quality Control 09. Central Sterilization Service Department 10. Staffing in a Hospital II. SHORT ANSWERS 20x3=6011. Functions of Medical Superintendent

- 12. Medical Record Officer
- 13. Nursing Superintendent
- 14. Dietician
- 15. Purchase Committee
- 16. Health Insurance
- 17. Triage in Emergency

18. ICU

- 19. Labour Ward
- 20. Operation Theatre
- 21. Critical Value
- 22. Functions of Resident Medical Office
- 23. Sewage treatment plant
- 24. FIFO in Pharmacy
- 25. Functions of Blood Bank
- 26. Components of a Radiology Unit
- 27. Mortuary
- 28. Injection Room
- 29. Corporate Hospitals
- 30. Fire Safety in Hospital

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KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY		
PARAMEDICAL BOARD, BENGALURU		
SUPPLEMENTARY EXAMINATION, JANUARY 2020		
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN		
DIALYSIS TECHNOLOGY (DDT	)	
QP CODE: 3152 (RS-1 SCHEME)		
<b>RENAL REPLACEMENT THERAPY OTHER THAN H</b>	HAEMODIALYSIS &	
PATIENT TEACHING		
(WRITE IN GREEN ANSWER BOO	K)	
	AX.MARKS: 90	
I. LONG ESSAY - ANSWER ANY <u>TWO</u>	2X10=20	
1. Mention various types of dialysis in critically ill patient	. Compare	
haemodialysis with CRRT.		
2. What are the treatment modalities available for remova	l of poisons? Write	
about principles and complications of haemoperfusion.		
3. Describe clinical, laboratory features and management	of CAPD peritonitis.	
How to prevent PD peritonitis?		
II. SHORT NOTES- ANSWER ANY TEN	5x10=50	
4. Describe PD fluid composition.		
5. Describe types of PD catheter and parts of PD catheter.		
6. Immunization of patient with CKD.		
7. Describe hygienic measures for CAPD.		
8. Factors affecting removal of poisons by haemodialysis a	and haemoperfusion.	
9. Mention the factors affecting adequacy of PD.		
10. Tabulate the records of various parameters involved in	acute PD.	
11. Anticoagulation during CRRT.		
12. Composition of dialysis team.		
13. What is CRRT and its types?		
14. Haemoperfusion- Principles, indications.		
15. Write a note on nutrition of patient undergoing mainter	nance haemodialysis	

#### **III. SHORT ANSWERS**

- 16. Two osmotic agents in peritoneal dialysis fluid
- 17. Two contraindications for peritoneal dialysis
- 18. Mention the types of PD
- 19. Name two vaccines used for patients with CKD.
- 20. Two non infectious complications of CAPD
- 21. Two drugs used for prevention of exit site infection (PD)
- 22. Two replacements fluids used in plasmapheresis
- 23. What is SLED? One indication for SLED
- 24. Two drugs removed by haemoperfusion
- 25. Two factors affecting drugs removal by extracorporeal methods

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10x2=20

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA INDIALYSIS TECHNOLOGY (DDT) QP CODE: 6153, DIALYSIS PAPER-II (RS-2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

I.

#### MAX.MARKS:

## SHORT NOTES ANY EIGHT

100

8X5=40

- 1. Describe about dialysis team and responsibilities of each member.
- 2. What is hemoperfusion? Name the indications of hemoperfusion.
- 3. Describe anatomy and physiology of peritoneal membrane.
- 4. What are the merits and demerits of HD over PD?
- 5. Describe psychosocial problems in patients undergoing maintenance dialysis.
- 6. Indications of CRRT and SLED.
- 7. Write a note on adequacy of peritoneal dialysis.
- 8. Monitoring of critical patient undergoing SLED/ CRRT
- 9. Factors affecting removal of drugs by haemodialysis and haemoperfusion.
- 10. How will you assess the adequacy of PD and factors affecting it?

#### **III. SHORT ANSWERS**

- 11. Three complications of hemoperfusion.
- 12. Composition of PD fluid.
- 13. Types of CAPD catheter infection.
- 14. Define CCPD, CAPD, and NIPD.
- 15. Mention ionotropes used in managing hypotension during hemodialysis.
- 16. Name three drugs removed by haemodialysis
- 17. Types of PD fluids according to osmotic agents.
- 18. Name three indications for SLED/CRRT.
- 19. Name three drugs removed by hemoperfusion.
- 20. Contents of CAPD catheter kit.
- 21. Name three antibiotics used in infection of PD catheter.
- 22. What should be the blood flow rate and dialysate flow rate in SLED and CRRT?
- 23. What are the steps in hand washing?
- 24. Name three acute complications of PD.
- 25. What are the common organisms causing PD catheter exit site infection?
- 26. Write dietary advice for CAPD patients.
- 27. Three anticoagulants used in SLED/CRRT
- 28. Name three clinical features of PD peritonitis.
- 29. Name the types of PD transfer sets.
- 30. Name three indications for PD.

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#### 20x3=60

#### TIME: 3 HRS

- I. LONG ESSAY ANSWER ANY <u>TWO</u>
  - 1) Mention in detail the major and minor surgical records.
  - 2) Write in detail about Eyebank- collection, preservation, transportation and publicity.
  - 3) How do you plan for cataract camp under National programme for control of blindness?

## **II.SHORT ESSAY- ANSWER ANY TEN**

- 4) Survey methodology.
- 5) Childhood blindness- causes and prevention
- 6) Role of teacher in school screening.
- 7) ICD-10.
- 8) Numerical index.
- 9) Neutralization of lenses
- 10)Prisms of ophthalmology.
- 11)What are the camp activities done in your hospital?
- 12)Rehabilitation of blind
- 13)Differences between spherical and cylindrical lenses.
- 14)Write a note on nursing care.
- 15) How is a optometrist useful in the field of ophthalmology?

#### **III. SHORT ANSWERS**

- 16)Name two charts to test near vision
- 17)Name two common eye diseases.
- 18) Why statistics is important in hospital setup?
- 19)Mention two major surgical records.
- 20)Classification of vitamin A deficiency.
- 21)Corneal FB management in a PHC
- 22) Mention two functions of a eye bank
- 23)Disease index.
- 24) Alphabetical index.
- 25)Name two antibiotics.

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# MAX.MARKS: 90

10x5=50

2X10=20

2x10=20

2√10−20

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA INOPHTHALMIC TECHNOLOGY (DOT) QP CODE: 6163, PAPER-II, OPHTHALMOLOGY(RS-2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### MAX. MARKS: 100

#### I. SHORT NOTES- ANSWER ANY<u>EIGHT</u> 8x5=40

- 1.Facts & myths of eye donation
- 2. Vision 2020
- 3. Define Amblyopia & its management
- 4. Eye bank
- 5. Classify anti glaucoma Drugs
- 6.Describe 5 Causes for Leukocoria(White pupillary reflex)
- 7.DBCS (District blindness control society)
- 8. Keratoplasty
- 9. School eye screening
- 10. Eye camps

#### **II. SHORT ANSWERS**

- 11. Topical anaesthesia
- 12. Drugs used in peribulbar block
- 13. Mention the contra indication for eye donation
- 14. Signs& symptoms of corneal ulcer
- 15. Vision recording
- 16. Mydriatics uses & contra indication
- 17. Causes for Sudden Painless Vision Loss
- 18. Uses of Antibiotic eye Drops
- 19. Drugs used for intra-Vitreal injection
- 20. Uses of NSAIDS
- 21. Causes of headache
- 22. Educational & vocational rehabilitation of the blind
- 23. Maintenance of In patient records
- 24. Enucleation of eye ball
- 25. Causes of lid swelling
- 26. Causes of photophobia
- 27. Difference between corneal congestion & conjunctival congestion
- 28. Causes for blindness in India
- 29. Anisometropia
- 30. Epilation

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20x3=60

KARNA	ATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (R	EGULATION) AUTHORITY		
	PARAMEDICAL BOARD, BENGALU	JRU		
	SUPPLEMENTARY EXAMINATION, JANU	JARY 2020		
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN				
	DENTAL MECHANICS (DDM)			
Ç	<b>QP CODE: 3172, PARTIAL DENTURES, ORTHO</b>			
	SCHEME)MAXIOFACIALMPROSTH			
	(WRITE IN BLUE ANSWER BOOK	,		
TIME: 1.30 HRS MAX.MA		MAX.MARKS: 45		
I.	LONG ESSAY	1x10=10		
	1. Define pontic. Write different types of pontic	designs.		
II.	SHORT NOTES	5x 5=25		
	2. Die systems			
	3. Connectors in FPD.			
	4. Adam's clasp			
	5. Obturatos			
	6. Appligate's rules			

#### **III. SHORT ANSWERS**

- 7. Mention components of RPD.
- 8. Parts of surveyor
- 9. Define rest
- 10.Refractory cast.
- 11.Mention 4 different types of casting machine

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5x2=10

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN DENTAL MECHANICS (DDM) QP CODE: 6172(RS-2 SCHEME) PARTIAL DENTURES, ORTHODONTIA, MAXIOFACIALMPROSTHESIS (WRITE IN BLUE ANSWER BOOK)

#### TIME: 1.30 HRS

#### I. SHORT NOTES -ANSWER ANY FOUR

- 1. Discuss pontic designs and principles.
- 2. Objectives of surveyor.
- 3. Define direct retainers and write in detail about gingival approaching clasp design.
- 4. Casting defects.
- 5. Define block out and types of Block out

#### II. SHORT ANSWERS

- 6. Uses of surveyor.
- 7. Indirect retainer.
- 8. Rest
- 9. Adam's clasp
- 10. FPD retainers
- 11. Die systems.
- 12. Colour coding in RPD
- 13. Connectors
- 14. Mention Principles of wax pattern
- 15. Aplligate's rule any three.

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10X3=30

MAX.MARKS: 50

4X5=20

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE (DDH) CODE: 3182(RS-1 SCHEME) DENTAL HEALTH EDUCATION, SOCIAL & PUBLIC HEALTH & PREVENTIVE DENTISTRY (WRITE IN BLUE ANSWER BOOK) TIME: 1.30 HRS MAX.MARKS: 45

I. LONG ESSAY 1. Describe the dental plaque control measures.	1x10=10
II. SHORT NOTES	5x5=25
2. Child and parent counseling	
3. Prevalence and prevention of periodontal disease.	
4. Community water supply and its implication on dental he	ealth
5. Dental health education	
6. Habits and effect on dental structures	
III. SHORT ANSWERS	5x2=10
7. Chlorexidine mouth wash	
8. Topical fluoride application	
9. Oral health in handicapped	

- 10. Environmental health
- 11. Habit breaking appliance.

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#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN DENTAL HYGIENE (DDM) QP CODE: 6183(RS-2 SCHEME) DIAGNOSIS & TREATMENT OF PERIODONTAL DISEASE (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### MAX.MARKS: 100

- I. SHORT NOTES-ANSWER ANY <u>EIGHT</u> QUESTIONS
  - 1. Describe different chemical plaque control agents.
  - 2. Write parafunctional habits and explain any one.
  - 3. Classification of periodontal instruments.
  - 4. Write indications and contra indications of ultrasonic scalers.
  - 5. Mention Difference between supra and subgingival calculus..
  - 6. Management of syncope patient.
  - 7. Rules and regulations of dental hygiene.
  - 8. Management of diabetes mellitus patients.
  - 9. Classify periodontal diseases.
  - 10. OHIS index.

## II. SHORT ANSWERS

- 11. Name emergency drugs.
- 12. Inter dental aids.
- 13. Define dental hygiene.
- 14. Name Sutures materials.
- 15. Name periodontal dressing.
- 16. Treatment of pericoronitis.
- 17. Oral irrigation devices
- 18. Drugs used in Asthma.
- 19. Periodontal findings in diabetes mellitus.
- 20. Precautions to be taken in pregnant women.
- 21. Special diet for patients with jaw fracture.
- 22. Care of handicapped patient.
- 23. Management of hypertensive patient.
- 24. Signs of Shock.
- 25. Name types of Haemophilia.
- 26. Name some anticoagulants.
- 27. Precautions to be taken in HIV patient..
- 28. Precautions to be taken in HBV infection.
- 29. Name some curettes.
- 30. Name periodontal diseases in children.

20X3=60

8X5=40

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN PHYSIOTHERAPY (DTP) QP CODE: 5193(RS-2 SCHEME) THERAPEUTIC EXERCISE (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

#### MAX.MARKS: 100

 $8 \times 5 = 40$ 

#### I. SHORT NOTES- ANSWER ANY <u>EIGHT</u>

- 1. Aims and techniques of Exercise therapy.
- 2. Principles of Goniometry.
- 3. Passive exercises.
- 4. Group Exercise.
- 5. Bed transfer activities.
- 6. Pathological gaits
- 7. Indications and goals of breathing exercises
- 8. Hydrotherapy and its uses.
- 9. Walking Aids
- 10. PNF.

#### II. SHORT ANSWERS

- 11. Reflexes
- 12. Parts of Goniometer
- 13. Parts of wheel chair
- 14. Frankel's exercises
- 15. Isometric exercise
- 16. Muscle responsible for running
- 17. Suspension therapy
- 18. Eccentric exercises
- 19. Irradiation
- 20. Resisted exercises
- 21. Postural defect
- 22. Ballistic movement
- 23. Muscles acting on hip movements
- 24. Merits of hydrotherapy
- 25. Properties of water
- 26. Aerobic training
- 27. Active movements
- 28. Advantages of group exercise
- 29. Different types of crutches
- 30. Massage

\*\*\*\*\*\*

 $20 \ge 3 = 60$ 

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR CERTIFICATE COURSES QP CODE: 1102(RS-1 SCHEME) CHEMISTRY (WRITE IN BLUE ANSWER BOOK) MAX.MARKS: 45

#### **TIME: 1.30 HRS**

#### I. LONG ESSAY - ANSWER ANY ONE

- 1. Explain the preparation, properties and uses of sulphuric acid.
- 2. Explain the preparation, properties and uses of hydrogen peroxidde.

#### II. SHORT NOTES- ANSWER ANY FIVE

- 3. Difference between RNA and DNA.
- 4. Classification of carbohydrates. Give example for each.
- 5. Preparation of ethyl alcohol from molasses.
- 6. Preparation and uses of ethane.
- 7. Functional properties of enzymes and antibodies.
- 8. Explain the structure of maltose.
- 9. Mention the names with structure of any five amino acids.

#### III. SHORT ANSWERS

- 10. Define i) Reducing agent ii) Oxidizing agent.
- 11. Tyndall effect.
- 12. Uses of fluorine.
- 13. Isotopes.
- 14. Define a) Acid b) Base.

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 $1 \times 10 = 10$ 

5×5=25

5×2=10

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 FIRST YEAR DIPLOMA COURSES, (RS-2 SCHEME) QP CODE: 4103, CHEMISTRY (WRITE IN GREEN ANSWER BOOK)

Calcium Carbonate

Sodium Carbonate

Calcium Sulfate

Sulphuric Acid Sodium Hydroxide

#### Time: 3.00hrs

I.

Max Marks:100 8 x 5=40

- SHORT NOTES -ANSWER ANY <u>EIGHT</u>
   Preparation of Nitric acid by Ostwald's process and mention two uses
- 2. What are isotopes? Mention the applications of cobalt-60, iodine 131 isotopes
- 3. Brownian movement and Tyndal effect
- 4. What are the strategies to control water pollution?
- 5. Classify the proteins on the basis of composition & biological importance

i)

ii)

iii)

iv)

v)

- 6. MATCH THE FOLLOWING
  - a) NaOH
  - b) CaCo3
  - c)  $H_2SO_4$
  - d) CaSO4
  - e) Na2CO3
- 7. Uses of toluene
- 8. Write a note on fluorocarbons and its applications
- 9. Discuss effect of temperature and pressure for the reaction
  - 2SO<sub>2</sub>+O<sub>2</sub> -----2SO<sub>3</sub> H= -QKJ
- 10. Choose the correct answers
  - i) General formula of alcohol
    - a) R-COOH b) R-COOR' c) R-OH d) R-CHO
  - ii) Proteins are the polymers of
  - a) Amines b) Acids c)  $\beta$ -Amino Acid d)  $\alpha$  Amino Acid
- iii) General formula of aldehyde
  - a) R-COOH b) R-COOR' c) R-OH d) R-CHO
  - iv) Immunoglobulin is
  - a) Hormone b) Enzyme c) Antibody d) Transport Agent
  - v) Hybridization of ethane a) sp b) sp<sup>2</sup> c)sp<sup>3</sup> d) sp<sup>2</sup>d

#### II SHORT ANSWERS

- 11. Define Normality, Morality, Molality
- 12. Uses of washing soda
- 13. What is the action of a) Cu b) Zn c) H2S in H2SO4
- 14. Write the composition of bleaching powder. Mention any 2 uses.
- 15. Plaster of Paris- Preparation and uses
- 16. Define a) Alkanes b) Alkenes. Give example for each
- 17. Classification of enzymes
- 18. Mention any three uses of iodoform
- 19. 2cm3 of 6N H2SO4 is mixed with 3 Cm3 of water. What is the normality of the final solution?
- 20. Fill in the Blanksi) General formula for alkane is......ii) Hybridization of ammonia.....iii) Fructose is a.....
- 21. What is peptide bond? write the formula of amino acids (1) Cysteine ii) Glycine
- 22. Write a note on global warning
- 23. Define i) Electronegativity ii) Electron gain enthalpy iii) Ionic radii
- 24. Name three fundamental particles of an atom
- 25. Octate rule
- 26. Mention importance of buffers in medicine
- 27.Ozone Layer
- 28. Types of RNA and their functions
- 29. Structure of sucrose & maltose
- 30. Give an example for a) Acidic amino acid b) Basic amino acid c) Neutral amino acid

20X3=60

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY(DMLT) **OP CODE: 2103, BIOCHEMISTRY(RS -1 SCHEME)** (WRITE IN GREEN ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 90

#### I. LONG ESSAY- ANSWER ANY TWO

- 1. Definition, classification and biomedical importance of Carbohydrates.
- 2. Explain colorimeter with principle, maintenance and applications.
- 3. What are the different types of auto analyzers? Give the differences between semi and fully automated analyzer.

#### **II. SHORT NOTES - ANSWER ANY TEN**

- Enzymes of diagnostic importance
- 5. Biomedical importance of lipids.
- 6. Indicators definition, uses and types.
- 7. Centrifuge principle and applications.
- 8. Functional classification of proteins with examples.
- 9. Laboratory hazards and precautions while handling chemicals.
- 10. Quality control
- 11. Buffers with examples.
- 12. pH meter
- 13. Normal organic and inorganic constituents of urine
- 14. Analytical balance
- 15. Aromatic and aliphatic compounds with examples

## **III. SHORT ANSWERS**

- 16. Essential amino acids
- 17. Structure of atom
- 18. Define an acid and a base. Give examples.
- 19. Examples of isoenzymes. .
- 20. Functions of Calcium.
- 21. Applications of flame photometer.
- 22. Homo polysaccharide.
- 23. Sucrose
- 24. Essential fattyacids
- 25. Normal range of urea and creatinine

# 10x2=20

#### 2x10=20

10x5=50

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT) QP CODE: 5103, BIOCHEMISTRY (RS -2 SCHEME) (WRITE IN GREEN ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 100

 $8 \times 5 = 40$ 

20 x 3=60

#### I. SHORT NOTES -ANSWER ANY EIGHT QUESTIONS

- 1) Explain different types of Centrifuges. Write about their maintenance &uses.
- 2) Reflux condenser use, care and maintenance.
- 3) Different types of flasks.
- 4) Phlebotomy procedures.
- 5) Normal solution.
- 6) Classification of enzymes with examples.
- 7) Normal organic & inorganic constituents of Urine.
- 8) Name the types of RNA. Write briefly on structure of tRNA.
- 9) Normal serum calcium level? Name any four functions of calcium in the body.
- 10) Classification of lipids. Mention the functions of Phospholipids.

#### II. SHORT ANSWERS

- 11) Different types of pipettes.
- 12) Heparin.
- 13) Different types of Cuvettes.
- 14) Water bath.
- 15) P<sup>H</sup> meter.
- 16) Cold Box.
- 17) Hydrogen ion concentration.
- 18) Preparation of buffer solution using P<sup>H</sup> meter.
- 19) Essential amino acids.
- 20) Homopolysaccharides.
- 21) Plasma proteins.
- 22) Conjugated proteins.
- 23) Deficiency diseases of Vitamin A.
- 24) Reference forms.
- 25) Isoenzymes.
- 26) Commonly used indicators
- 27) Log Books.
- 28) Rancidity of Fat.
- 29) Different cleaning solutions.
- 30) Classify salts with examples.

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI) QP CODE: 2111, COMMUNITYMEDICINE, PAPER-I (RS 1 SCHEME) (WRITE IN GREEN ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 90

#### I. LONG ESSAY- ANSWER ANY TWO

- 1. What is Social Security? Explain social security measures for elderly and industrial workers in India
- 2. Explain in detail synthesis, secretion and function of Thyroid hormone. Add a note on Hypothyroidism
- 3. Define family. Types of family and describe role of family in health and disease.

#### II. SHORT NOTES - ANSWER ANY <u>TEN</u>

- 4. Kuppuswamy classification of socio economic status
- 5. Discuss role of life style behaviours in causing diseases
- 6. Social problems affecting health of community
- 7. Role of customs and culture in child rearing
- 8. Emotional health
- 9. Advantage and disadvantage of Nuclear family
- 10. Medico Social worker
- 11. Functions of Saliva
- 12. Describe Uterus in detail with the help of labelled diagram.
- 13. Explain layers chambers and valves of human heart
- 14. Rural development
- 15. Vitamin D

#### III. SHORT ANSWERS

- 16. Three generation family
- 17. Problem family
- 18. Below Poverty line
- 19. Acculturation
- 20. Difference between family and household
- 21. Functions of large intestine
- 22. Condition affecting learning
- 23. Dowry Prohibition act
- 24. Social Mobility
- 25. Formula for Intelligence quotient

#### \*\*\*\*\*\*\*

#### 10×2=20

10×5=50

2x10=20

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN HEALTH INSPECTOR (DHI) QP CODE: 5111, COMMUNITY MEDICINE, PAPER-I(RS -2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

#### TIME: 3 HRS

MAX. MARKS: 100

#### I. SHORT NOTES-ANSWER ANY <u>EIGHT</u> QUESTIONS $8 \times 5 = 40$

- 1. Name organs of digestive system & write functions of liver
- 2. Write functions of nervous system
- 3. Describe structure with labeled diagram and list function of heart
- 4. The Femur bone
- 5. Define Health & write about determinants of health
- 6. Explain Epidemiological triad with labeled diagram
- 7. Define Family. Role of family in health and disease
- 8. Write briefly about "natural history of disease"
- 9. Define rehabilitation and classify with examples
- 10. Motivation and its stages

#### **II. SHORT ANSWERS**

- 11. Write three functions of white blood cells
- 12. Uses of sweating
- 13. Name three hormone secreted by adrenal gland
- 14. Write the name of plasma proteins
- 15. Name three components of physical quality of life index
- 16. Positive health
- 17. Acculturation
- 18. Define surveillance and give example
- 19. Below poverty line
- 20. Primordial prevention
- 21. Three types of Learning
- 22. High risk strategy
- 23. Nuclear Family
- 24. Consumer Protection Act
- 25. Disease Elimination
- 26. Write "Spectrum of health" diagram
- 27. Social defence
- 28. What do you mean by "Web of Causation"?
- 29. Write three host relate biological properties of biological agent
- 30. Define risk factor and give an example

20 x3 = 60

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY (DMXT) QP CODE: 2122, ANATOMY(RS -1 SCHEME) (WRITE IN BLUE ANSWER BOOK) TIME: 1.30 HRS MAX. MARKS:45

#### 111112, 1,50 1110

## I. LONG ESSAY- ANSWER ANY TWO

- 1. Classify Joints with examples. Describe Synovial Joints.
- 2. Name the parts of Respiratory System with a labelled diagram. Describe Lungs in brief.
- 3. Name the parts of Female Reproductive System with a labelled diagram. Describe Ovary in brief.

#### II. SHORT NOTES- ANSWER ANY THREE

- 4. Shoulder Joint
- 5. Right Atrium
- 6. Para Nasal Air Sinuses
- 7. Tongue

#### **III. SHORT ANSWERS**

- 8. Name the types of Bones
- 9. Write two differences between Large Intestine and Small Intestine
- 10. Bones forming Hip Joints
- 11. Name the Carpal bones
- 12. Name any four Cranial Nerves

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 $2 \times 10 = 20$ 

5 x 2 = 10

 $3 \times 5 = 15$ 

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA INMEDICAL IMAGING TECHNOLOGY (DMIT) QP CODE: 5123, ANATOMY(RS -2 SCHEME) (WRITE IN BLUE ANSWER BOOK)

**TIME: 1.30 HRS** 

MAX. MARKS: 50

#### I.SHORT NOTES- ANSWER ANY FOUR

 $04 \ge 05 = 20$ 

 $10 \ge 03 = 30$ 

- 1. Describe the hip joint.
- 2. Describe the nose with the paranasal air sinuses
- 3. Describe the contents of intercostal space
- 4. Describe the parts of young long bone with diagram
- 5. Describe synovial joints with examples

#### **II. SHORT ANSWERS**

- 6. Mention the parts of hip bone
- 7. Mention the parts of large intestine
- 8. Mention the different anatomical planes
- 9. Mention the terms used to describe the movements of joints
- 10. Mention the nerves of upper limb
- 11. Name the veins of lower limb
- 12. Mention the parts of typical vertebra
- 13. Mention the parts and contents of mediastinum
- 14. Name the branches of abdominal aorta.
- 15. Name the tarsal bones

\*\*\*\*\*\*

#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY (DOTT) QP CODE: 2132, SECTION-A, BIOCHEMISTRY(RS -1 SCHEME) (WRITE IN BLUE ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 90

#### **I.LONG ESSAY - ANSWER ANY ONE** 1x10=101. DefineFBS and PPBS blood glucose levels? Explain the factors regulating blood glucose levels. 2. Define Acids, Bases and Salts. Write a note on body buffers **II. SHORT NOTES- ANSWER ANY TWO** 2x5=10 3. Formation of creatinine. 4. Urea and creatinine Clearance tests. 5. Write a note on serum electrolytes. **III. SHORT ANSWERS** 5x2=10 6. Name tests to detect protein in urine 7. Normal constituents of Urine. 8. Benzidine test 9. Theory of Ionization 10. Normal values of blood urea and serum creatinine. QP CODE: 2133, SECTION-B, PHARMACOLOGY (RS -1 SCHEME) (WRITE IN RED ANSWER BOOK) I LONG ESSAY- ANSWER ANY ONE 1x10=10 1. Name six Parenteral route of drug administration. Mention two advantages & two disadvantages of Intravenous route of drug administration. 2. Name four commonly usedPENICILLINS . Mention two uses, two adverse effects & mechanism of action of PENICILLINS. **II. SHORT NOTES - ANSWER ANY TWO** 2x5 = 103. Lignocaine 4. Diazepam 5. Calculate the dose of a drug for the patient weighing 50 kg., if a adult dose is 10 mg/kg **III SHORT ANSWERS** 5 x2=10 6. Mention two Intravenous Anaesthetics. 7.Name two Antiseptics. 8. Mention two Adverse effects of Aminoglycoside Antibiotics 9. Name Two complications of Spinal anaesthesia. 10. Name four Antitubercular drugs.

#### QP CODE: 2134, SECTION-C, MICROBIOLOGY (RS 1 SCHEME) (WRITE IN PURPLE ANSWER BOOK)

Ι	LOI	NG ESSAY- ANSWER ANY <u>ONE</u>	1x10=10
	1.	Define and classify Immunity. Describe in detail acquired immunity.	
	2.	Define and classify sterilisation. Discuss moist heat methods of sterilisation.	
II	SHC	DRT NOTES - ANSWER ANY TWO	2x5=10
	3.	Standards of air quality in the operation theatre	
	4.	Nosocomial infections	
	5.	Anaphylaxis	
III	SH	IORT ANSWERS	5 x2=10
	6.	Joseph Lister	
	7.	Cold sterilisation	
	8.	Draw a neat labelled diagram of Hepatitis B Virus	
		Name four Gram negative bacteria	
	10.	Name two DNA viruses	

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#### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 **II YEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY** (DOT &AT) **QP CODE: 5133, SECTION-A, BIOCHEMISTRY(RS -2 SCHEME)**

(WRITE IN BLUE ANSWER BOOK)

#### TIME: 3 HRS

#### **MAX. MARKS: 100**

#### **I.SHORT ESSAY - ANSWER ANYFIVE.**

- 1. Write in brief about renal function tests.
- 2. Define plasma proteins. Write their functions.
- 3. Define buffer? Write different types of buffer.
- 4. Define carbohydrate? Write their classification.
- 5. Write function and deficiency of vitamin A.
- 6. Discuss the concepts of acid base reaction.

#### **II. SHORT ANSWERS**

- 7. Define lipoprotein and write their functions.
- 8. Write the common indicators used for acids and bases.
- 9. Metabolic acidosis.
- 10. Name serum electrolytes and write their normal values.
- 11. Define nucleosides and nucleotides.

#### QP CODE: 5134, SECTION-B, APPLIED PHARMACOLOGY (RS 2 SCHEME) (WRITE IN RED ANSWER BOOK)

#### **I.SHORT ESSAY - ANSWER ANY THREE**

- 1. Mention three Non steroidal anti inflammatory drugs. Mention the uses and adverse effects of Paracetamol.
- 2. Mention three corticosteroids and name the uses and adverse effects of corticosteroids.
- 3. Mention the advantages and disadvantages of Halothane.
- 4. Spinal Anaesthesia

#### SHORT ANSWERS Π

- 5. Mention Three Solid dosage forms
- 6. Name three intra venous general anaesthetic agents
- 7. Mention three drugs used in Anaphylactic shock

8. Mention three Opioid analgesics and name the antidote used in opioid poisoning

9. Name three anti emetics

#### QP CODE: 5135, SECTION-C, MICROBIOLOGY (RS2 SCHEME) (WRITE IN PURPLE ANSWER BOOK) 3x5 = 15

#### I. SHORT ESSAY - ANSWER ANY THREE

- 1. Louis Pasteur
- 2. Autoclave
- 3. Acquired immunity
- 4. Type I hypersensitivity reaction

#### **II. WRITE SHORT NOTES**

- 5. Infections caused by Staphylococcus
- 6. Name three chemical disinfectants.
- 7. Universal precautions.
- 8. Fumigation of operation theatre.
- 9. Write three methods of biomedical waste disposal.

5x3=15

 $5 \times 3 = 15$ 

3x5=15

5x5 = 25

5×3=15

KA	ARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATIO	ON (REGULATION) AUTHORITY
	PARAMEDICAL BOARD, BENG	ALURU
	SUPPLEMENTARY EXAMINATION, J	ANUARY 2020
	I YEAR DIPLOMA /II YEAR CERTIFICATE	
	RECORDS TECHNOLOGY	
	QP CODE: 2142, SECTION-A, ANATON	
	(WRITE IN BLUE ANSWER B	,
	TIME: 3 HRS	MAX. MARKS: 90
I.	LONG ESSAY - ANSWER ANY <u>ONE</u>	$1 \ge 10 = 10$
	1. Name the parts of female reproductive system. Write	
	2. Name the bones of upper limb. Write briefly about sl	
II.	SHORT NOTES - ANSWER ANY <u>TWO</u>	$2 \times 5 = 10$
	<ol> <li>Spinal cord</li> <li>Liver</li> </ol>	
	5. Left lung	
II	0	$5 \times 2 = 10$
111	6. Small intestine	5 X Z = 10
	7. Lymph node	
	8. Draw neat labelled diagram of neuron	
	9. Mention the parts of urinary system	
	10. Name the types of muscle tissue	
	QP CODE: 2143, SECTION-B, PHYSIOLO (WRITE IN RED ANSWER BO	
I.	SHORT NOTES ON ANY FOUR	$4 \times 5 = 20$
	1. Blood clotting mechanism.	
	2. Oxygen transport in blood.	
	3. Composition & functions of gastric juice.	
	4. Hormones of anterior pituitary gland.	
	5. Menstrual cycle.	
II.		5x2=10
	6. Functions of kidney.	
	<ol> <li>Give normal values of bleeding time &amp; clotting time.</li> <li>Write two functions of plasma proteins.</li> </ol>	
	9. What is apnoea?	
	10. Name two family planning methods.	
	QP CODE: 2144, SECTION-C, PATHOLOGY & MIC	ROBIOLOGY (RS1 SCHEME)
	(WRITE IN PURPLE ANSWER	
I.LOI	NG ESSAY - ANSWER ANY <u>ONE</u>	, 1x 10=10
	1. Explain record keeping in Histopathology	
	2. What is Microbiology? Write briefly about different sectio	ons in Microbiology
II. SH	IORT NOTES- ANSWER ANY <u>TWO</u> 2x5=10	
	3. Ziehl-Neilson stain	
	4. Methods of estimation of Hemoglobin	
TTT C	5. Mention various common haematology investigations <b>SHORT ANSWERS</b>	5-2-10
III. S	6. Mention four parasites that infect man	5x2=10
	<ol> <li>Mention parts of light microscope</li> </ol>	
	8. Name the normal components found in the microscopic	examination of urine
	9. Name four fungal diseases	
	10. Name four bacterial diseases	
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	KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION)	AUTHORITY		
	PARAMEDICAL BOARD, BENGALURU			
SUPPLEMENTARY EXAMINATION, JANUARY 2020				
II YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY (DMRT)				
	QP CODE:5143, SECTION-A, ANATOMY(RS -2 SCH	· · · ·		
	(WRITE IN BLUE ANSWER BOOK)			
T	IME: 3 HRS MAX. MAF	RKS: 100		
	SHORT NOTES- ANSWER ANY TWO	2 x5 = 10		
	1. Name the endocrine organs and describe the thyroid in detail			
	2. Describe the diaphragm in detail			
	3. Describe the shoulder joint			
Π	SHORT ANSWERS	10x3=30		
	4. List the parts of urinary system			
	5. Mention the paranasal sinuses			
	6. Classify epithelia with examples			
	7. Mention the parts of the nervous system			
	8. Mention the types of vertebrae			
	9. Mention the parts of large intestine			
	10. Mention the branches of arch of aorta			
	11. Palatine tonsil			
	12. Name any 3 bones in upper limb			
	13. Name any 3 arteries in the lower limb			
	QP CODE:5144, SECTION-B, PHYSIOLOGY (RS 2 SCHEME)			
-	(WRITE IN RED ANSWER BOOK)	0 = 4=		
1.	SHORT NOTES- ANSWER ANY <u>THREE</u>	3x5=15		
	1) Errors of Refraction & its correction.			
	2) Draw neat labelled diagram of Cell with its organelles.			
	3) Functions of Plasma Proteins.			
тт	4) Olfactory Pathway. . SHORT ANSWERS	E v 2-1E		
11,	5) Normal count of a)RBC b) WBC c) Platelets	5 x 3=15		
	6) State Landsteiner's Law.			
	7) Name the Body fluid compartments.			
	8) Name two Clotting Factors.			
	9) Define Receptor. Types of Sensory Receptors.			
0	P CODE:5145, SECTION-C, PATHOLOGY & MICROBIOLOGY (RS 2	SCHEME)		
×	(WRITE IN PURPLE ANSWER BOOK)	oenewie,		
Ι	. SHORT NOTES: ANSWER ANY THREE.	3X5=15		
	1. Define edema. Write in detail about pathogenesis of edema.			
	2. Define inflammation. Write in detail about vascular response of acute infla	ammation.		
	3. Define neoplasia. Write difference between benign and malignant tumors			
	4. Define osteomyelitis. Mention in detail about Pott's spine.			
	II SHORT ANSWERS	5 x 3=15		
	5. Tuberculosis of lung.			
	6. Mention 4 parasites of medical importance.			
	7. Gall stones.			
	8. Papillary carcinoma of thyroid.			
	9. Mention 4 diseases caused by viruses.			

# I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN

### **DIALYSIS TECHNOLOGY (DDT)** QP CODE: 2153, SECTION-A, BIOCHEMISTRY(RS -1 SCHEME) (WRITE IN BLUE ANSWER BOOK)

### TIME: 3 HRS

MAX. MARKS: 90 1x10=10

- LONG ESSAY ANSWER ANY ONE I.
  - 1. What is glycolysis? Describe anaerobic glycolysis pathway
  - 2. What is Renal Function Test (RFT)? Describe the clearance tests. 5x5=25

### II. SHORT NOTES ON ANY FIVE

- 3. Factors maintaining blood sugar level
- 4. Explain theory of ionization.
- 5. Define blood buffers with examples.
- 6. Specific gravity of urine.
- 7. Heat coagulation test
- 8. Types of diabetes mellitus.

### **III. SHORT ANSWER**

- 9. Write normal values of a). Serum Uric acid b). Blood urea level.
- 10. Define electrolytes. Give normal values of serum electrolyte levels.
- 11. Define buffers with examples.
- 12. Applications of chromatography.
- 13. Test for detection of bile pigments and bile salts in urine.

### **QP CODE: 2154, SECTION-B, MICROBIOLOGY (RS 1 SCHEME)** (WRITE IN RED ANSWER BOOK)

### I. LONG ESSAY - ANSWER ANY ONE

- 1. Mention the sterilization methods. Describe the chemical disinfectants used in hospitals.
- 2. Define hospital infection. Mention the causative organisms, sources & prevention of hospital infection.

### **II. SHORT NOTES - ANSWER ANY FIVE**

- 3. Robert Koch.
- 4. Dialysis room sterility check.
- 5. Labeled diagram of bacterial cell.
- 6. OT Fumigation.
- 7. Autoclave.
- 8. Example for active and passive immunity.

### **III SHORT ANSWERS**

9. Name the organisms causing

A) Tuberculosis B) Dysentery C) Cholera D)Enteric fever

10. Name the diseases caused by

A) Candida B) Salmonella typhi C) Clostridia D)E.coli

11. Method of sterilization of

A) Endotracheal tube B) OT dress C) Equipment D) Glove

- 12. Normal flora of skin.
- 13. Infections caused by streptococci.

\*\*\*\*\*\*

### 1x10=10

5x5 = 25

### 5x2=10

5x2=10

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN DIALYSIS TECHNOLOGY (DDT) QP CODE: 5153, SECTION-A, BIOCHEMISTRY (RS -2 SCHEME) (WRITE IN BLUE ANSWER BOOK)

### TIME: 3 HRS

 $4 \times 5 = 20$ 

 $10 \times 3 = 30$ 

 $4 \times 5 = 20$ 

 $10 \ge 3 = 30$ 

**MAX. MARKS: 100** 

**I. SHORT NOTES – ANSWER ANY <u>FOUR</u>.** 1.Define enzyme? Write factors affecting enzyme activity.

- 2. Discuss in brief about abnormal constituents of urine.
- 3. Write in brief about liver function tests.
- 4. Define buffer? Write different types of buffer.
- 5. Define lipids? Write its classification..

### II. SHORT ANSWERS.

- 6. Respiratory acidosis.
- 7. Different types of RO water.
- 8. Lipid profile.
- 9. Write three differences between DNA and RNA.
- 10. Essential amino acids with examples.
- 11. Define isoenzyme? Write two examples.
- 12. Creatinine clearance test.
- 13. Define protein? Write their functions.
- 14. Common indicators used for acids and bases.
- 15. Deficiencies of vitamin A.

### QP CODE: 5154, SECTION-B, MICROBIOLOGY (RS2 SCHEME) (WRITE IN RED ANSWER BOOK)

### I. SHORT NOTES - ANSWER ANY FOUR.

- 1. Define sterilization. Add a note on Autoclave
- 2. Louis Pasteur
- 3. OT Sterilization
- 4. Bacterial growth curve
- 5. Classify Immunity. Add a note on Active immunity

### II. WRITE SHORT ANSWERS

- 6. Name any three material used to sterilize in Hot air oven
- 7. Name three diseases caused by staphylococcus aureus
- 8. Name three gaseous disinfectants
- 9. Name any three lactose fermenters
- 10. Draw a neat labelled diagram of bacterial cell
- 11. List the sterilization control of Autoclave
- 12. Name any three nosocomial infections
- 13. Local Immunity
- 14. List any three Routes of Infection
- 15. List Bio-Medical waste disposal in a dialysis unit

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY (DOT) QP CODE: 2162(RS1 SCHEME) OPHTHALMOLOGY PAPER-II (WRITE IN GREEN ANSWER BOOK) TIME: 3 HRS MAX. MARKS: 90

### I. LONG ESSAY – ANSWER ANY <u>TWO</u>

- 1. Classify conjunctivitis. Discuss clinical features and management of trachoma
- 2. Classify uveitis. Discuss etiology, clinical features and management of iridocyclitis

2x10=20

 $10 \ge 5 = 50$ 

 $10 \ge 2 = 20$ 

3. Describe Grades of Binocular Single Vision

### II. SHORT NOTES - ANSWER ANY TEN

- 4. Angular conjunctivitis
- 5. Vernal kerato conjunctivitis
- 6. Fungal corneal ulcer
- 7. Exposure keratitis
- 8. Homatropine
- 9. Keratoplasty
- 10. Scleritis
- 11. Signs symptoms and management of angle closure glaucoma
- 12. Define cataract and mention the classification of cataract
- 13. Urine analysis
- 14. Atropine sulphate.
- 15. Diabetic retinopathy.

### **111. SHORT ANSWERS**

- 16. Pannus
- 17. Difference between true and pseudo pterygium
- 18. Keratoconus
- 19. Indication of evisceration
- 20. Staphyloma
- 21. Atrophic bulbi
- 22. Panophthalmitis
- 23. Keratic precipitates
- 24. Uses of steroid drops in ophthalmology
- 25. Timolol maleate

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY (DOT) QP CODE: 5163, OPHTHALMOLOGY PAPER-II (RS -2 SCHEME) (WRITE IN GREEN ANSWER BOOK)

### TIME: 3 HRS

### I. SHORT NOTES- ANSWER ANY<u>EIGHT</u>

- 1. Glaucoma
- 2. Diabetic Retinopathy
- 3. Post operative complication of cataract surgery.
- 4. Corneal Ulcer
- 5. Cataract and it's management
- 6. Mention Vitamin 'A' deficiency and treatment
- 7. Types of Squint
- 8. Types of blephritis and complication
- 9. Eye lid diseases
- 10. Procedure for measuring intraocular pressure.

### **II. SHORT NOTES**

- 11. Types of cataract surgery
- 12. What is mature and hyper matured cataract
- 13. Methods of removing corneal foreign body
- 14. Treatment of chalazion
- 15. Epilation
- 16. Complications of corneal ulcer
- 17. Clinical signs of acute congestive glaucoma
- 18. Causative organism of conjunctivitis
- 19. External and internal hordeolum
- 20. Epiphora
- 21. Pseudophakia
- 22. Lacrimal syringing
- 23. Management of acid burns
- 24. Ophthalmic emergencies
- 25. Eye health education in preventing common Eye diseases
- 26. What are the investigations done before cataract surgery
- 27. Post operative health education to cataract patients
- 28. Pterygium
- 29. Keratoconus
- 30. Lid Diseases

20x3=60

**MAX. MARKS: 100** 

8x5=40

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA /II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS (DDM) QP CODE: 2172, APPLIED ORAL ANATOMY (RS -1 SCHEME) (WRITE IN BLUE ANSWER BOOK) TIME:1. 30 HRS MAX. MARKS: 45

### I. LONG ESSAY-ANSWER ANY <u>ONE</u>

1) Describe the Anatomy of Mandibular permanent first molar.

2) What are the muscles of mastication? Write in detail about function of masseter

### II. SHORT NOTES – ANSWER ANY <u>FIVE</u>

- 3) Muscles of facial expression
- 4) Movements of temporomandibular joint
- 5) Significance of incisive papilla
- 6) Muscles of tongue
- 7) Class II and class III occlusion
- 8) Maxillary lateral incisor
- 9) Maxillary supporting structures

### **III. SHORT ANSWERS**

- 10) Incisive papilla
- 11) Velar sounds
- 12) Freni and its significance
- 13) Mid-palatine raphe
- 14) Lateral throat form

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 $5 \times 2 = 10$ 

1x10=10

5 x5 = 25

### KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 II YEAR DIPLOMA IN DENTAL MECHANICS (DDM) QP CODE: 5172, APPLIED ORAL ANATOMY (RS -2 SCHEME) (WRITE IN BLUE ANSWER BOOK) TIME: 1. 30 HRS I. SHORT NOTES- ANSWER ANY FOUR $4 \ge 5 = 20$

# I. SHORT NOTES- ANSWER ANY <u>FOUR</u>

- 1) Anatomy of Permanent Mandibular 1st Molar
- 2) Teeth numbering systems
- 3) Stress bearing and relieving areas in maxilla
- 4) Muscles of Mastication
- 5) Balanced Occlusion

### **II. SHORT ANSWERS**

- 6) Class 1 Occlusion 7) Bilabial Sounds
- 8) Muscles of Tongue
- 9) Lateral Throat Form
- 10) Incisive Papillae
- 11) Hamular Notch
- 12) Branches of Facial Nerve
- 13) Buccinator
- 14) Rugae
- 15) Mid-Palatine Raphae

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 $10 \ge 3 = 30$ 

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA /II YEAR CERTIFICATE COURSE IN DENTAL **HYGIENE (DDH)** QP CODE: 2183, (RS -1 SCHEME) SECTION-A, GENERAL PATHOLOGY & MICROBIOLOGY (WRITE IN BLUE ANSWER BOOK)

### **TIME:1.30 HRS**

### I. LONG ESSAY- ANSWER ANY ONE

- 1. Define inflammation. Mention the cardinal signs and write the types of inflammation. Describe the vascular events.
- 2. Write a note on Pathology and Bacteriology of dental caries, gingival and periodontal inflammation.

### II. SHORT ESSAY: ANSWER ANY FOUR

- 3. Define healing. Mention its types and factors affecting the healing.
- 4. Define neoplasia. Write the difference between benign and malignant
- 5. Vitamin D deficiency.
- 6. Write a note on oral manifestations of systemic diseases.
- 7. Define sterilization. Write the different methods of sterilization.
- 8. Write a note on dental anomalies.

### III. SHORT ANSWERS

- 9. Histology of periodontal tissue.
- 10. Name two viral infections.
- 11. Name two fungal diseases.

### QP CODE: 2184, SECTION-B, PHARMACOLOGY (RS 1 SCHEME) (WRITE IN RED ANSWER BOOK)

### I. SHORT ANSWERS

- 1. Name TWO advantages and TWO disadvantages of Oral route of drug administration
- 2. Name TWO analgesics used in Dentistry
- 3. Write the antidote for overdose of following drugs
  - A) Heparin B) Warfarin
- 4. Name FOUR local anaesthetics
- 5. Name FOUR antibiotics commonly used in Dentistry

### \*\*\*\*\*\*

### $5 \times 2 = 10$

# $1 \times 9 = 9$

4x5=20

MAX. MARKS: 45

3x2=6

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 **II YEAR DIPLOMA IN DENTAL HYGIENE (DDH)** QP CODE: 5183 (RS -2 SCHEME) SECTION-A, GENERAL PATHOLOGY & MICROBIOLOGY (WRITE IN BLUE ANSWER BOOK) MAX. MARKS: 50

### **TIME:1.30 HRS**

### I. SHORT NOTES: ANSWER ANY FOUR

- 1. Describe the investigations done in pathology.
- 2. Define Inflammation. Discuss the vascular events of acute inflammation.
- 3. Dental nomenclature.
- 4. Oral manifestations of systemic diseases.
- 5. Sterilization procedure.

### **SHORT ANSWERS:** II.

- 6. Vitamin D deficiency.
- 7. Dental erosion.
- 8. Name three common infectious diseases.
- 9. Gingival infections.
- 10. Leucoplakia.

## QP CODE: 5184, SECTION-B, APPLIED PHARMACOLOGY (RS 2 SCHEME) (WRITE IN RED ANSWER BOOK)

### I. SHORT NOTES- ANSWER ANY ONE

1. Mention the various routes of Drug administration. Write the advantages of Oral routes of administration.

2. Classify NSAID's and Write briefly on Salicylates.

### II. SHORT ANSWERS

- 3. Name 2 local Anaesthetic agents.
- 4. Name 2 uses of Penicillins.
- 5. Name 2 Glucocorticoids and 2 uses of it.
- 6. Name 2 Oral Hypoglycemic agents.
- Name 2 adverse effects of Barbiturates. 7.

### 5 X 2 = 10

1 X 5 = 5

# 4x5=20

5x3=15

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 I YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) QP CODE: 4193, SECTION-A, PHYSIOLOGY (RS -2 SCHEME) (WRITE IN BLUE ANSWER BOOK)

### **TIME:3 HRS**

### MAX. MARKS: 100

## I. SHORT NOTES -ANSWER ANY <u>FOUR</u> QUESTIONS

4 X 5 = 20

- 1. Classify Body Fluid Compartments. Give their normal values.
- 2. Functions of Plasma Proteins
- 3. Myastenia Gravis.
- 26. Describe saltatory Conduction. Mention its Importance and Advantages.
- 27. Heart Sounds.

### II.SHORT ANSWERS10x3=30

- 28. Functions of Testis.
- 29. Define ageusia and anosmia.
- 30. Taste buds.
- 31. Four Pulmonary Function Tests.
- 32. Chemoreceptors.
- 33. Name the Expiratory Muscles.
- 34. Surfactant and its role.
- 35. Functions of Parathyroid Hormone.
- 36. Tetany.
- 37. Role of Vitamin D in the Prevention of Osteoporosis.

# QP CODE: 4194, SECTION-A, BIOCHEMISTRY (RS 2 SCHEME)

### (WRITE IN RED ANSWER BOOK)

### I. SHORT NOTES- ANSWER ANY <u>FOUR</u> QUESTIONS

- 1) Define and classify amino acids with examples.
- 2) Renal function tests.
- 3) Effect of hormones on various metabolisms.
- 4) Functions and deficiency symptoms of Vit A.
- 5) Clinical importance of enzymes.

### II. SHORT ANSWERS

- 6) Classify carbohydrates with examples.
- 7) Mitochondria.
- 8) Vit B2
- 9) Detoxification.
- 10) Balanced diet.
- 11) Unsaturated fatty acids.
- 12) Kwashiorkor.
- 13) Denaturation.
- 14) Cholesterol.
- 15) Nitrogen equilibrium.

10x3 = 30

 $4 \times 5 = 20$ 

## KARNATAKA NURSING & PARAMEDICAL SCIENCES EDUCATION (REGULATION) AUTHORITY PARAMEDICAL BOARD, BENGALURU SUPPLEMENTARY EXAMINATION, JANUARY 2020 III YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) QP CODE: 3202, YOGA & MENTAL HEALTH(RS -1 SCHEME) (WRITE IN GREEN ANSWER BOOK)

### **TIME:2 HRS**

### I. LONG ESSAY- ANSWER ANY FOUR

- 1. Explain the principles of yoga therapy
- 2. Describe the psycho-physiological concept of yoga
- 3. Describe the techniques of Suryanamaskara
- 4. Effects of Bandha's Kriya's
- 5. What is normal mental health? Describe the factors contributing towards it.

### II. SHORT NOTES - ANSWER ANY FIVE

- 6. Vakrasana
- 7. Yama and Niyamas
- 8. Jalaneti
- 9. Padmasana
- 10. Samadhi
- 11. Yogic diet

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MAX. MARKS: 65

5X5-25

4X10=40