PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3101, BIOCHEMISTRY

I.LONG ESSAY - ANSWER ANY TWO

- 1. What are the normal and abnormal constituents of Urine? Describe any one tests to detect any one abnormal constituents of urine(3+3+4)
- 2. How is Blood Glucose regulated in the body add a note on hormones regulating blood sugar levels in the body (6+4).
- 3. Write in detail about digestion and absorption of Proteins (5+5)

II.WRITE SHORT NOTES ON ANY TEN

- **4.** Glycolysis
- 5. Internal quality control
- 6. Formation of ketone bodies.
- 7. Renal Function Tests
- 8. Urea Cycle
- 9. Electrophoresis principle, types and applications.
- 10. Tests for Inorganic constituents of normal urine.
- 11. Constituents of gastric juice
- 12. Importance of isoenzymes.
- 13. ISE Definition, principle and applications.
- 14. Creatinine formation.
- 15.Radio Immuno Assay (RIA)- Principle and applications

III.WRITE SHORT ANSWERS

- 16. Reagent kits
- 17. Name two hormones of blood glucose regulation
- 18. Two uses of ELISA
- 19. Significance of Statistics in Biochemistry
- 20. Applications of chromatography
- 21. Vandenberg test.
- 22. Batch analyzer.
- 23. Hay`s test.
- 24. Cardiac enzymes
- 25. Write the normal range of serum electrolytes.

10x5=50

2x10 = 20

10x2=20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6101, BIOCHEMISTRY

I.SHORT NOTES - ANSWER ANY EIGHT QUESTIONS

1) Write in detail about spectrophotometer and its applications.

2) Types of Jaundice. Write Characteristic features of Hepatic Jaundice.

3) Random access auto analyzer.

4) Liver function tests.

5) Name the different methods of Glucose Estimation. Mention their Advantages& Disadvantages.

6) Hypertension.

7) ELISA.

8) RIA.

9) Respiratory acidosis and Respiratory alkalosis.

10) Post analytical factors importance in clinical chemistry.

II. SHORT ANSWERS

11) Benedict's test.

12) Iodine test.

13) Van den berg test.

14) Reference values and its Interpretation.

15) Chloride shift.

16) Normal serum levels of chloride, Na⁺, K⁺.

17) List of causes of Hypokalaemia.

18) Principles of Quality assurance.

19) Explain the terms : Accuracy, precision, specificity and sensitivity.

20) Basic principles of estimation of Blood gases and P^H.

21) Types of analysers and its benefits.

22) Isoenzymes.

23) Electrophoresis.

24) Cardiac enzymes.

25) Fasting blood sugar.

26) Formation of Bilirubin.

27) Renal regulation of Acid Base Balance.

28) Serum Cholesterol level and its interpretation.

29) Tests for Bile salt and Bile pigments.

30) Write about colorimetric absorbance and transmission of light.

20x3=60

8x5 = 40

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR CERTIFICATE COURSES (RS -1 SCHEME) MAX. MARKS: 45

TIME: 1.30 HRS

QP CODE: 1101, PHYSICS

I. LONG ESSAY - ANSWER ANY ONE

- 1. Explain work, power and energy with units.
- 2. Define radioactivity. Explain emission of α , β and γ rays with sketch.

II. WRITE SHORT NOTES ON ANY <u>FIVE</u>

- 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. WRITE SHORT ANSWER

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

 $1 \ge 10 = 10$

 $5 \times 5 = 25$

 $5 \ge 2 = 10$

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019 II YEAR CERTIFICATE COURSE/III YEAR DIPLOMA IN HEALTH INSPECTOR (DHI)** TIME: 3 HRS MAX. MARKS: 90 (RS -1 SCHEME)

OP CODE: 3111, PAPER-I

I.LONG ESSAY - ANSWER ANY TWO

- 1. Write on causes, effects, indicators and control measures of air pollution. (2+2+2+4)
- 2. What is health education? Discuss the principles of health education. Write the steps in planning health education session in a village.(2+4+4)
- 3. Explain various modes of transmission of Acquired Immunodeficiency Diseases (AIDS) in detail and write about Health education message for HIV/ AIDS prevention. (6+4)

II. SHORT NOTES- ANSWER ANY TEN

- 4. Balanced diet
- 5. Food adulteration
- 6. Janani Suraksha Yojana
- 7. Functions of Primary health centre
- 8. Nutrition supplementation at Anganwadi centre
- 9. Roles and responsibility of health inspectors
- 10. Role of family in health and disease
- 11. Habits and Customs affecting health and disease
- 12. Audio visual aids used in health education
- 13. Sanitation barrier
- 14. Housing standards
- 15. Food safety and standards act 2006 (FSSAI)

III. SHORT ANSWERS

- 16. What are the Vaccines to be given to one and half month old baby according to National Immunization Schedule?
- 17. Mention two modifiable and two non- modifiable risk factors for Non Communicable diseases
- 18. Mobiles as Health Education tool
- 19. What is Role Play?
- 20. Types of learning
- 21. Sanitary survey
- 22. First aid for unconscious person
- 23. Below Poverty Line (BPL) card
- 24. Occupational hazard of waste handlers
- 25. Triage in disaster management

2X10=20

 $10 \ge 5 = 50$

 $10 \ge 2 = 20$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN HEALTH INSPECTOR(DHI) TIME:3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6111, COMMUNITY MEDICINE, PAPER-I

I. SHORT NOTES- ANSWER ANY EIGHT

- 1. Preventive measures to control Mosquito breeding
- 2. What are the harmful effects of tobacco on health? Mention two measures to control and prevent tobacco use in the population.
- 3. BCG vaccine
- 4. Road traffic accidents and its prevention
- 5. Pulse polio Immunization
- 6. Enlist the major non-communicable diseases in India. Write risk factors for stroke.
- 7. What is cancer? Write briefly on screening for cancer.
- 8. Types of Plague.
- 9. Vision 2020
- 10. Describe the epidemiology of Cholera. Discuss prevention and control of it.

II. SHORT ANSWERS

- 11. Domestic accidents
- 12. Write about challenges faced in public health due to "Antigenic Variations of Influenza virus"
- 13. Explain the "Rule of *Halves*" in hypertension
- 14. Integrated Counselling and Testing Centre (ICTC)
- 15. Diseases transmitted by faeco-oral route
- 16. Prevention of coronary heart disease
- 17. Active surveillance Malaria
- 18. Name three causes for neonatal tetanus in India. List any three control measures
- 19. Rehabilitation in Leprosy
- 20. Vaccine carrier
- 21. Nosocomial infection
- 22. What is self-care in Diabetes mellitus?
- 23. Explain Sanitation barrier with neatly labelled diagram
- 24. List causes of blindness in India
- 25. Expand RNTCP, NVBDCP & NMHP
- 26. Tracking of BP
- 27. Congenital Rubella
- 28. Janani Shishu Suraksha Karyakrama
- 29. Hazards of obesity
- 30. Function of anganwadi centre

8 X 5 = 40

20 X 3 = 60

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN X-RAY TECHNOLOGY (DMXT) TIME:3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3121, RADIOGRAPHY INCLUDING RADIOLOGY PHYSICS

I. LONG ESSAY – ANSWER ANY <u>TWO</u>

 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 film with their thickness.

II. WRITE SHORT NOTES ON ANY <u>TEN</u>

- 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. WRITE 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

 $10 \ge 2 = 20$

 $2 \times 10 = 20$

 $10 \ge 5 = 50$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT) (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6121, RADIOGRAPHY POSITIONING & RADIOGRAPHIC PHOTOGRAPHY

I. SHORT NOTES - ANSWER ANY EIGHT

1. Linear attenuation coefficient

- 2. Grids- Functions and construction
- 3. Somatic and genetic effects of radiation
- 4. ALARA concept
- 5. Collimators

TIME:3 HRS

- 6. Skull views
- 7. Beam limiting devices
- 8. Radiation detectors
- 9. Management of contrast reactions
- 10. Sources of radiations

II.SHORT ANSWERS

- 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

 $20 \ge 3 = 60$

 $8 \times 5 = 40$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY(DOTT) TIME:3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3131, ANAESTHESIA & ALLIED TOPICS

I. LONG ESSAY - ANSWER ANY TWO

- 1. What are local anaesthetic agents? Classify local anaesthetics. Write briefly about local anaesthetic toxicity. (2+3+5)
- 2. Mention different types of centrineuraxial blockade. Describe the effect of centrineuraxial blockade on various organ systems. (2+8)
- 3. Classify anaesthesia breathing systems. Write a note on Bain's circuit. (4+6)

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

10 X 5 =50

10 X2=20

 $2 \times 10 = 20$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY(DOT&AT) TIME:3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6131, ANAESTHESIA & ALLIED TOPICS

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

- 1. Complications of blood transfusion
- 2. Circle system
- 3. Epidural anaesthesia
- 4. Basic life support
- 5. Postoperative care of high risk patients
- 6. ASA physical grading
- 7. Monitored Anaesthesia Care
- 8. Preoperative preparation of anaesthesia equipments (Cockpit Drill)
- 9. Laryngeal Mask Airways
- 10. Capnography

II. SHORT ANSWERS

- 11. Ambu bag
- 12. Noradrenaline
- 13. Lignocaine
- 14. Midazolam
- 15. Pethidine
- 16. Atropine
- 17. Isoflurane
- 18. Laryngoscope
- 19. Defibrillator
- 20. Emergency drugs
- 21. Ringer lactate
- 22. Neostigmine
- 23. Airway assessment
- 24. Clonidine
- 25. Spinal needles
- 26. Intravenous regional Anaesthesia
- 27. Bougie
- 28. Dexamethasone
- 29. Ventimask
- 30. Metaclopramide

20 X3 =60

 $8 \ge 5 = 40$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TEHNOLOGY (DMRT) TIME:3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3141, MEDICAL TERMINOLOGY

Note: Question Paper contains 2 pages

I.	Answer the following	5X3=15
	1) Definition of Medical Terminology? Objectives of Medical Ter	minology?
	2) Write any Two Commonly used Disease and Operation Terms	s of
	Eponym"s and their meaning.	
	3) Sources of Medical Terminology?	
II.	Give meaning for the following Prefixes:	5X1=5
	1) Orchi 2) Phleb 3) Kerat 4) Hysster 5) Macro	
III.	Give the meaning for the following Suffixes:	5X1=5
	1) Plasty 2)Cele 3) RRhaphy 4) Ptosis 5) RRhoea	
IV.	Give the meaning for the following Roots:	5X=5
	1) Thrombo 2) Spondyle 3) Salphing 4) Mix 5) Radi	
V.	Write the Phobias for the following	10X1=10
	1) Zoophobia 2) Death 3) Galeophobia 4)Pain 5) Dislike books	s 6)
	Panophobia	
	7) Number 13 8) Neophobia 9) Red 10 Hydrophobia	
VI.	Differentiate the following terms:	5X2=10
	Gavage - Lavage Stasis - Staxis Epidemic - End	lemic
	Contusion - Concussion Corpus - Corpes	
VII.	Match the following	5X1=5
	1)Hypertention - Milk	
	2)Angio - Skin Cancer	
	3) Galact - Chronic Liver Disease	
	4) Melanoma - Vessel	
	5) Cirrhois - Low Blood Pressure	
VIII.	Give the medical Terms for the following:	10X1=10
	1) Morbid enlargement of an Organ	
	2) Suture of an Injured Nerve	
	3) Region over Pit of the Stomach	
	4) Lithotripsy	
	5) Removal of Testis	
	6) A drug reduces the Fever	

	7) Exessive of foot intake	
	8) Replacement of Hip	Р.Т.О.
	9) Inflammation of the Thyroid Gland	
	10)Excessive of urinary output	
IX.	Define the following:	10X1=10
	1) Polydipisa	
	2) Thrombocytopenia	
	3) Dementia	
	4) Anxity	
	5) Hydronephrosis	
	6) Bells Palsy	
	7) Vagotomy	
	8) Amputation	
	9) Myocardium	
	10)Siderosis	
Х.	Expand the Following Abbreviation:	10X1=10
	1) GOO 2)IUGR 3) GERD 4)ADPKD 5)DNS	6)IDDM
	7)VSD 8)ICSOL	
	9) STD 10) BPH	
XI.	Give the meaning for following the Numerical	5X1=5
	1) Kilo 2) Multi 3) Hemi 4 Mono 5) Dio	

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN MEDICAL RECORDS TERMINOLOGY(DMRT)** (RS -2 SCHEME) **MAX. MARKS: 100 OP CODE: 6141, MEDICAL TERMINOLOGY**

TIME: 3 HRS

I.SHORT NOTES - ANSWER ANY EIGHT QUESTIONS

- 1. Explain the chief sources of Medical Terminology and give each examples.
- 2. Brief about the Objectives and Values of Medical Terminology.
- 3. Define Plane and mention any five planes of the Body.
- 4. Define Roots of Stem.
- 5. Define Prefix, Suffix and Roots.
- 6. Define abortion and list the types of abortion.
- 7. Write brief about the Eponyms and mention any five eponyms.
- 8. Write any five operation procedure medical terms.
- 9. Define Phobia.
- 10. Define Fracture and mention any types of fractures.

II. SHORT ANSWERS

 $20 \ge 3 = 60$

8x5 = 40

- 11. Write the meaning for phobia 1. Andro phobia, 2. Hydrophobia, 3. Pyrophobia, 4. Zoophobia, 5.Kynophobia.
- 12. Give the definition for the Anemia, Malacia, Megaly.
- 13. Give numerals for Deca, Octo, Tri.
- 14. Write definition for Operation procedures, 1.Septoplasty, 2. Lithotripsy, Herniorrhaphy.
- 15. Write colours name for these terms, 1. Melan, 2. Niger, 3. Cirrhos.
- 16. Expand the (ABCD, LMP, and IDDM).
- 17. Write the difference between Palpation and Palpitation.
- 18. Write the surgical procedure term for (Removal of Ovary, Removal of Tonsil, Removal of Breast)
- 19. Analyse these suffixes (Hydrocele, Spleenomegaly, Hepatomegaly).
- 20. Write meaning for Operative suffixes, (Ectomy, RRhaphy, rrhexis).
- 21. Write the medical terms for (eye, teeth, heart).
- 22. Write the definition for (Anaesthesia, Hypertension, Hyperglycemia).
- 23. Name the root for (Evelid, Bladder, Vertebra).
- 24. Give the meaning for these suffixes (Spasm, Algia, Osis).
- 25. Write suffixes for (Pathy, Emia, Cele).
- 26. Define (Apnea, Dyspepsia, Empyema)
- 27. Write root term for (Adenomalacia, Cardiomegaly, Haemotoma)
- 28. Write meaning for (Abasia, Cancer, Fracture).
- 29. Give the correct meaning of
 - a. Related to both eyes. B.imperfect digestion c.Situated outside the kidney.

30. Match the following

- a. Loss of Sensation
- b. Removal of Tongue
- c. Oopherectomy
- Glossectomy
- Removal of Ovary.

Anaesthesia.

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY(DDT) TIME:3 HRS (RS -1 SCHEME) MAX. MARKS: 90 QP CODE: 3151

FUNDAMENTALS OF HEMODIALYSIS & COMPONENTS

I. LONG ESSAY – ANSWER ANY TWO

1. Write about pre, intra and post dialysis patient monitoring. Add notes on the machine alarms and their causes. (5+5=10)

2. Explain the anticoagulation techniques used in Hemodialysis.

3. Define the three main principles of dialysis. Define, write the steps of

measurement, the formulae for calculation and the interpretation Urea reduction ratio and Kt/V in the assessment of adequacy of dialysis. What are the clinical symptoms and signs of inadequate dialysis?(3+3+4)

II. SHORT NOTES - ANY TEN

- 4.write a note on access recirculation
- 5. Name some common medications used in dialysis patients and their uses.
- 6. Tabulate the composition of dialysate used for hemodialysis.
- 7.Describe anatomy and blood supply of peritoneal membrane

8. Priming and initiating of hemodialysis machine

9.Definehemodiafiltration. What are the advantages and disadvantages? (1+2+2)

10. Advantages and disadvantages of Peritoneal dialysis compared to hemodialysis

11. How to diagnose PD peritonitis? How to prevent PD peritonitis?(2+3)

- 12.Describe Apparatus for peritoneal dialysis
- 13. Advantages and disadvantages of dialyser reuse
- 14.non infectious complications of peritoneal dialysis catheter
- 15. Acute hemodialysis prescription

III. SHORT ANSWERS

- 16. Enumerate different types of transporters in PET.
- 17. Management of hyperkalemia in a hemodialysis patient
- 18. Name 2 intradialytic complications
- 19.Define flux and efficiency of dialysis
- 20.Name 2 Chemicals used for dialyser reuse
- 21. Name 2 anti hypertensive drugs
- 22. Renal function test
- 23.Draw a dialyser and label parts.
- 24.Normal level of blood urea and serum creatinine
- 25. Name two antibiotics used for catheter related sepsis

10X2=20

10X5=50

 $2 \times 10 = 20$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN DIALYSIS TECHNOLOGY(DDT) TIME:3 HRS (RS -2 SCHEME) MAX. MARKS:100

QP CODE: 6151, PAPER-I

I. SHORT NOTES , ANSWER ANY EIGHT

1. Explain about reverse osmosis plant with diagram

- 2. Draw and describe extra corporeal dialysis circuit
- 3. Enumerate acute complications of haemodialysis
- 4. Function of kidney
- 5. Anemia in ckd
- 6. Dialyser reuse
- 7. Adequacy of dialysis
- 8. Heparin free dialysis
- 9. Universal precaution
- 10. Emergency indications of dialysis

II SHORT ANSWERS

- 11. Sodium remodelling during dialysis
- 12. Monthly biochemical test in HD
- 13. Different methods AV fistula cannulation
- 14. Antibiotic lock in catheter
- 15. Complications of AV fistula
- 16. Write short note on acute renal failure
- 17. Iron administration
- 18. What is AAMI?
- 19. Name 3antihypertensive
- 20. Backwash
- 21. Renal function test
- 22. Fibre bundle volume
- 23. Write about erythropoietin use in dialysis
- 24. What are the various adequacy tests for PD?
- 25. Name 3 common medications taken by hemodialysis patient
- 26. Priming of haemodialysis
- 28. CYCLERS
- 29. PD SOUTION DEXTROSE concentration
- 30.Plasmapheresis -define and draw circuit

20 X 3= 60

8X5=40

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY(DOT) TIME:3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3161, PAPER-I

I. LONG ESSAYS- ANSWER ANY <u>TWO</u>

- 1). What is Asepsis? How do you do sterilization of instruments in OT?
- 2). What is trial set? Mention different components of Trial set.
- 3). Laying of Trolley for Cataract surgery.

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

- 4). Write a note on cutting of eyelashes before Cataract surgery.
- 5). How to do Ocular Bandaging?
- 6). What is Autoclaving?
- 7). Write a note on subconjunctival injection.
- 8). How to sterilise a Tonometer?
- 9). What is Lensometer? Mention its uses.
- 10). What is Synoptophore?
- 11). Name all the instruments in Chalazion Surgery.
- 12). How to do bedmaking in the ward?
- 13). What are the post operative instruction given to patient after Cataract Surgery?
- 14). Instructions given before surgery to a patient.
- 15). Lacrimal Syringing and its Interpretation.

III. SHORT ANSWERS

- 16). Mention 2 Types of Tonometers.
- 17). Making of swabs.
- 18). What is instrument used to check spectacle power?
- 19). Mention 2 instruments used in squint surgery
- 20). Mention 2 Indication for Ocular Bandaging.
- 21). How to clean a Slit Lamp?
- 22). Laying a Trolley for dressing in the ward.
- 23). How to give Enema?
- 24). When do you wash the eyes?
- 25). Agents used in Fumigation.

2X10=20

5X10=50

 $2 \times 10 = 20$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY(DOT) TIME:3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6161, PAPER-I

I. SHORT NOTES- ANSWER ANY EIGHT

8x5=40

- 1. Method & indication of ETO Sterilization
- 2. What is fumigation? Describe methods of fumigation in OT (Operation Theatre)
- 3. Phacoemulisification machine
- 4. What Is CSSD . Describe various function of CSSD.
- 5. Describe various sutures used in ophthalmology
- 6. Describe various Gas cylinders used in OT & their colour coding
- 7. Anaesthesia Machine
- 8. Endotracheal Tubes
- 9. Describe the various drugs used in inhalation anaesthesia (General Anaesthesia)

10. Describe the various drugs used in intra venous anaesthesia (General Anaesthesia)

II. SHORT ANSWERS

20x3=60

- 11. Describe type of anaesthesia used for eye surgery
- 12. Applying indicators for autoclaving
- 13. Describe methods of eye Bandaging
- 14. Types of autoclaves
- 15. How to shift Blind patient from ward to OT
- 16. Describe Prophylaxis following exposure to HIV in OT
- 17. Maintenance of operating microscope
- 18. Describe Temperature settings for sterilization in Autoclave
- 19. Steps of chalazion surgery
- 20. Describe Various Instruments used in small Incision cataract surgery
- 21. Colour coding of Bio medical waste disposal
- 22. Uses of suction apparatus
- 23. Commonly used IV fluids
- 24. Packing sterilization bin
- 25. Calibration of Applanation tonometer
- 26. Uses of indirect ophthalmoscope
- 27. Uses of slit lamp biomicroscope
- 28. Describe ophthalmic trial set & various lenses
- 29. Types of tonometer
- 30. Describe procedure for calculating IOL Power

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN DENTAL MECHANICS(DDM) TIME:1.30 HRS (RS -1 SCHEME) MAX. MARKS: 45 QP CODE: 3171, COMPLETE DENTURES

I. LONG ESSAY

1X10=10

1) Describe in detail the principles of teeth arrangement

II.WRITE SHORT NOTES

5 X 5 = 25

5 X 2 = 10

- 2) Immediate dentures
- 3) Mention the uses and materials used in fabrication of occlusal rims
- 4) Mention various materials used in fabrication of record base
- 5) Difference between Acrylic and porcelain teeth
- 6) Posterior teeth- type

III.WRITE SHORT ANSWERS

- 7) Relining
- 8) Overjet and overbite
- 9) Bench curing
- 10) Thermoplastic sheets
- 11) Master cast

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN DENTAL MECHANICS(DDM) TIME:1.30 HRS (RS -1 SCHEME) MAX. MARKS: 50 QP CODE: 6171, COMPLETE DENTURES

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

4X5=20

- 1. Define balanced occlusion and factors affecting it.
- 2. Write in detail about special tray designs with diagram.
- 3. Principles of teeth arrangement.
- 4. Denture porosity.
- 5. Classify articulators and write in detail about mean value articulator.

II. SHORT ANSWERS

10X3=30

- 6. Significance of incisive papilla.
- 7. Mention purposes of articulator
- 8. Boundaries of buccal shelf area.
- 9. Remounting of the cast.
- 10. Repair of the denture.
- 11. Different types of polishing agents used in dentistry.
- 12. Different types of Single denture.
- 13. Posterior tooth form.
- 14. Retromolar pad.
- 15. Teeth selection.

PARAMEDICAL BOARD, BENGALURU		
ANNUAL EXAMINATION, AUGUST 2019		
II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN		
DENTAL HYGIENE(DDH)		
TIME:1.30 HRS	(RS -1 SCHEME)	MAX. MARKS: 45
QP CODE: 3181, DE	NTAL HYGIENE & ORAI	L PROPHYLAXIS

I. LONG ESSAY

1X10=10

1. Define and classify dental calculus. Write the difference between supra and subgingival calculus.

II.	WRITE SHORT NOTES	5x5=25
2.	Define gingiva and name parts of the gingiva.	
3.	Principal fibres of periodontal ligament	
4.	Mention functions of periodontal ligament.	
5.	Define cementum. Write types of cementum.	
6.	Attached gingiva	
III	. WRITE SHORT ANSWERS	5X2=10
7.	Indications of ultrasonic scalers.	
8.	Gingival abscess.	
9.	Gingival massage.	

- 10. Name 4 brushing techniques.
- 11. Periodontal probes

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE(DDH) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100 QP CODE: 6181, ETIOLOGY & PATHOGENESIS OF PERIODONTAL DISEASES

I. SHORT NOTES: ANSWER ANY EIGHT QUESTIONS

- 1. Define gingival, write types of gingiva and explain each.
- 2. Principal fibres of periodontal ligament.
- 3. Name types of saliva and composition of saliva.
- 4. Fibres of gingiva.
- 5. Define dental plaque and explain stages of dental plaque.
- 6. Write differences between supra and subgingival calculus.
- 7. Root surface changes of periodontal pocket.
- 8. Write clinical features of gingivitis.
- 9. Classify gingival enlargement.
- 10. Define and classify cementum.

II. SHORT ANSWERS

- 11. Attached gingiva
- 12. Alveolar bone proper.
- 13. Periodontal abscess.
- 14. Name theories of calculus formation.
- 15. Non keratinized structures of gingiva.
- 16. Treatment of ANUG.
- 17. Name crystal of dental calculus.
- 18. Classification of gingival recession.
- 19. Classification of dental calculus.
- 20. Basal bone.
- 21. Cemento enamel junction (CEJ).
- 22. Gingival col.
- 23. Name acute gingival lesions.
- 24. Blood supply to gingival.
- 25. Dehiscence.
- 26. Osteoblasts.
- 27. Color of gingiva.
- 28. Ankylosis of tooth.
- 29. Classify dental plaque.
- 30. Gingival col.

20X3=60

8X5=40

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA COURSES

TIME: 3 HRS

(RS -2 SCHEME) QP CODE: 4101, PHYSICS

MAX. MARKS: 100

8×5=40

I SHORT NOTES -Answer any EIGHT questions.

- 1. State and explain Bernoulli's theorem.
- 2. Explain potential energy and kinetic energy with example.
- 3. What is surface tension? Write a note on capillarity.
- 4. What is thermometer? Explain the types.

5. Match the following

a) Velocity	i. Steady flow of liquid
b) Pressure	ii. Temperature remains constant
c)Stress	iii. Force/area
d) Streamline motion	iv. deforming force
e) Isothermal process	v. ms^{-1}

6. What is reflection? State the laws.

- 7. State and explain Ohm's law.
- 8. Write a note on ultrasonography.
- 9. Explain the production of X-rays.
- 10. Multiple choice questions

a) Distance between two consecutive crests and troughs is

- i) Amplitude ii) Wavelength iii) Wave motion iv) Frequency
- b) Atomic number is number of

i) Protons ii) Neutrons iii) Electrons iv) Molecules

- c) The device which converts light energy into electrical energy is called
 - i) Transistors ii) Photoelectric cell iii) Diode iv) Thermistor
- d) A substance which does not allow current to pass through it is......i) Conductor ii) Semiconductor iii) Insulator iv) Resistor
- e) S.I Unit of frequency is.....
 - i) Metre ii) Hertz iii) Watt iv) Second

II.SHORT ANSWERS

- 11. Define physical quantity and unit with example.
- 12. Write a note on acceleration due to gravity.
- 13. Explain modulus of elasticity.
- 14. Explain floatation with example.
- 15. Define cohesion and adhesion.
- 16. Explain conduction of heat.
- 17. State and explain Charles' law for volume.
- 18. What is optical fibre? Write two applications.
- 19. Write a note on interference of light.
- 20. Fill in the blanks
 - i) Dimension of work isii) Rate of change of velocity is.....
 - ii) The substance which reflects light is called......
- 21. Define real image and virtual image.
- 22. Write properties of α-rays.
- 23. Write a note on radioactive safety measures.
- 24. Explain the action of NPN transistors.
- 25. What is an ammeter? Explain.
- 26. Explain p-type semiconductor.
- 27. Define i) Electric intensity ii) Electric field iii) Electric potential
- 28. Write a note on interference of light.
- 29. What is a thermistor? Mention the uses.
- 30. Answer the following
 - A) What is doping? B) What is spectrophotometer?
 - C) Name the lens which converges the beam of light after refraction.

20×3=60

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)** (RS -2 SCHEME) TIME: 3 HRS **MAX. MARKS: 100 QP CODE: 5191, SECTION-A, PATHOLOGY**

I.SHORT NOTES - ANSWER ANY FOUR QUESTIONS

1. What are the types of cell injuries ? Write in detail about necrosis.

- 2. Fracture healing.
- 3. Write differences between congestion and hyperemia with examples.
- 4. What is protein energy malnutrition?
- 5. Myocardial Infarction.

II. SHORT ANSWERS

- 6. Rickets
- 7. Gangrene
- 8. Atherosclerosis
- 9. Definition of anemia
- 10. Differences between hyperplasia and hypertrophy
- 11. Tuberculosis Osteomyelitis
- 12. Types of jaundice.
- 13. Ulcerative lesion of intestine
- 14. Tuberculosis Meningitis.
- 15. Fatty liver

QP CODE: 5192, SECTION - B, MICROBIOLOGY

I.SHORT NOTES - ANSWER ANY FOUR QUESTIONS $4 \times 5 = 20$

- 1. Define and classify Immunity. Explain Innate Immunity.
- 2. Different modes of transmission of Infection
- 3. Type I hypersensitivity
- 4. Moist heat sterilization
- 5. Lab diagnosis of typhoid fever

II. SHORT ANSWERS

- 6. Name three bacteria causing sexually transmitted diseases
- 7. Name three diseases caused by streptcoccus pyogenes
- 8. Name three gram positive bacteria
- 9. List typhoid vaccines
- 10. Name three bacteria causing UTI
- 11. List serological Markers of hepatitis B
- 12. List three bacteria causing wound Infections
- 13. List any three components universal safety precautions
- 14. IgG Antibody (Draw & Label)
- 15. Name three pandemic diseases

10 x3 = 30

10 x3 = 30

4 X 5 = 20

		QP CODE: 2101 SECTION -A, ANATOM	ÍY
_		(WRITE IN SEPARATE ANSWER BOOK)	
I.	-	ONG ESSAY- ANSWER ANY ONE	1X10=10
		Classify Bones with examples. Describe Histology of Compact Bo	
	2.	Name the parts of Female Reproductive System with a labelled di	agram.
		Describe Uterus in brief. (5+5)	
П.		RITE SHORT ESSAYS ON ANY FIVE	5 X5 = 25
		Hyaline Cartilage	
		Right Lung	
		Right Atrium	
		Biceps Brachii Muscle	
		Thyroid Gland	
		Histology of Oesophagus	
		Eyeball	
П		VRITE SHORT ANSWERS	5 X 2=10
). Name any two Muscles of Upper Limb	
		. Name any four Cranial Nerves	
		2. Name any two Joints of Lower Limb	
	-	8. Name branches of Arch of Aorta	
	14	Name the Carpal Bones	
		QP CODE: 2102 SECTION -B, PHYSIOLO	GY
-		(WRITE IN SEPARATE ANSWER BOOK)	11/10 10
I.		LONG ESSAY- ANSWER ANY ONE	1X10=10
	1.	What is Cross matching? Describe the effects of mismatched blood	a transfusion
	•	(2+8)	
тт		List the hormones of Pancreas. Describe the actions of Glucagon.	
11.		RITE SHORT ESSAYS ON ANY FIVE	5 X5 = 25
		Intra uterine contraceptive devices (IUCD)	
		Hypermetropia	
		Conducting system of Heart	
		Functions of gastric juice	
тт		Draw a neat labeled diagram of Nephron and mention its function VRITE SHORT ANSWERS	
11.	_		5 X 2=10
		Give the normal values of A)Platelet count B) Clotting time	
). Two types of WBC's Name two functions of CSF	
		2. What is Apnoea?	
	14		

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019** I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT)

MAX. MARKS: 90

(RS -1 SCHEME)

II.

II

TIME: 3 HRS

I.

II.

II

- 11at 15 ΥP
- 13. Name two functions of long bones

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT)

TIME: 3 HRS

(RS -2 SCHEME)

MAX. MARKS: 100

QP CODE: 5101 SECTION –A, ANATOMY (WRITE IN SEPARATE ANSWER BOOK)

I. SHORT ANSWERS- ANSWER ANY FOUR

4X5=20

10 X3 = 30

- 1. Classify bones with examples
- 2. Describe the Humerus bone
- 3. Describe the Shoulder joint
- 4. Describe Gluteus maximus muscle
- 5. Describe Urinary bladder

II. SHORT NOTES

- 6. Name the bones of Lower limb
- 7. Name the muscles of Leg
- 8. Name the parts of the Stomach
- 9. Name the arteries of the Lower limb
- 10. Give examples for Synovial joint
- 11. Name the Cell Organelles
- 12. Tendon
- 13. Name the branches of arch of Aorta
- 14. Name the muscles of Tongue
- 15. Name the parts of Pituitary gland

QP CODE: 5102 SECTION -B, PHYSIOLOGY

(WRITE IN SEPARATE ANSWER BOOK)

I. SHORT ANSWERS - ANSWER ANY FOUR

- 1. Composition & Functions of Plasma Proteins.
- 2. Normal Constituents of Urine.
- 3. Oxygen Dissociation Curve.
- 4. List the Anterior Pituitary hormones. List the functions of Thyroid hormone.
- 5. Spermatogenesis.

II. SHORT NOTES

- 6. List the muscles of ventilation.
- 7. Conducting System of Heart.
- 8. Functions of Haemoglobin.
- 9. Draw a neat labelled diagram of Neuron.
- 10. Deglutition.
- 11. Types of Muscle.
- 12. Define Cardiac output & its normal value.
- 13. Name three Contraceptive methods in Female.
- 14. Name three Anticoagulants.
- 15. Mitochondria.

4X5=20

10 X3 = 30

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY (DMXT) TIME: 1.30 HRS (RS -1 SCHEME) MAX. MARKS: 45

QP CODE: 2121

GENERAL PHYSICS

I. LONG ESSAY – ANSWER ANY ONE

- A. Define electron and proton .
 B. Draw a neat labelled diagrammatic representation of X-ray production
 C. Write about types of anodes. (2+5+3)
 - **2. A.** Define law of conservation of energy. Give one example.
 - B. Write the properties of electromagnetic radiation
 - C. Draw a neat labelled diagram of transformer and one use. (3+4+3)

II. WRITE SHORT NOTES ON ANY FIVE

- 3. Capacitors and its uses
- 4. Write differences between AC and DC current.
- 5. Define charge and properties of charge
- 6. Tube rating chart
- 7. Modes of propagation of electromagnetic waves with one example
- 8. Full wave rectifier with neat diagram

III. WRITE SHORT ANSWERS

- 9. Ohm's law
- 10. Volta-meter
- 11. Define work and mention SI unit
- 12. Space charge
- 13. Insulators

5 X 2 = 10

1 X10 = 10

10)

5 X 5 = 25

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY (DMRT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2141, MEDICAL RECORD SCIENCE

I. LONG ESSAY-ANSWER ANY TWO

1. Briefly write the History of Medical Records?

- 2. Duties and responsibility of MRO, AMRO and MRT? Explain
- 3. Define Centralized and Decentralized Filing system?

II. WRITE SHORT NOTES ON ANY TEN

- 4. Explain Bailable and Non Bailable Offences?
- 5. What is Assembling and Deficiency Check list? Explain
- 6. Retention and Shredding procedure of Medical Records?
- 7. Functions of OP and IP Registration counters.
- 8. Right to Information Act.
- 9. Characteristics of Medical Records?
- 10. Forms Control Programme.
- 11. What types of Certificate Issued in Medical Records Department?
- 12. Explain briefly role of Medical Records in Quality Care reviews?
- 13. What is HIMS? Explain.
- 14. What is e-Janma. How to provide the Birth and Death Certificates in this Software?
- 15. Briefly write the Medico Legal Section Procedures?

III. WRITE SHORT ANSWERS

- 16. Public Officer
- 17. UHID
- 18. Plaintiff
- 19. Bed Occupancy Rate
- 20. Decree Holder
- 21. Name correction procedure
- 22. Contents of Medical Records
- 23. Tracer Card
- 24. Mid Night Census
- 25. Documentary Evidence.

10X2=20

2X10=20

10x5=50

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY (DOTT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE- 2131 FUNDAMENTALS OF OT & BASIC CONCEPTS IN SURGERY

I LONG ESSAY – ANSWER ANY TWO

- 1. What is ambulatory surgical care? Describe in brief the intra operative, discharge and advantages of ambulatory surgery.
- 2. Discuss the role of OT technicians in day care surgery
- 3. Describe the types of wound healing. Describe the factors influencing wound healing.

II WRITE SHORT NOTES ON ANY TEN

- 4. Methods of sterilization
- 5. Sterile team members
- 6. Surgical scrub
- 7. Various types of cautery and precautions in using cautery
- 8. Harmonic scalpel
- 9. Patients skin preparation
- 10. Check list
- 11. Wound dressing
- 12. Ryles tube
- 13. Fumigation
- 14. Suction device
- 15. Positions in surgery

III WRITE SHORT ANSWERS

- 16. AMBU bag
- 17. Disinfection
- 18. Daily OT cleaning
- 19. Vacuum suction
- 20. Enema
- 21. Draping
- 22. Hospital waste management
- 23. Gowning
- 24. CPR
- 25. Gauze

10X2=20

2X10 = 20

10X5=50

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY (DOT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE- 2161, PAPER-I

I. LONG ESSAY – ANSWER ANY <u>TWO</u>

- 1. Draw a labelled neat diagram of eye. Write a note of conjunctiva.
- 2. What are extraocular muscles . what are ductions and versions.
- 3. What is myopia. Different methods to correct myopia.

II. WRITE SHORT NOTES ON ANY TEN

- 4. What are bifocal spectacles . different types of bifocals.
- 5. What is hypermetropia and different types of hypermetropia.
- 6. What is perimetry and how to check for the same.
- 7. Draw picture of corneal layers.
- 8. What are progressive lens. Types of progressive lenses.
- 9. Advantages and disadvantages of contact lens uses.
- 10. Write a note on components of vision.
- 11. What are prism and how are prisms used.
- 12. What are BSV? mention grades of BSV.
- 13. Write a note on aqueous drainage with a neat diagram.
- 14. What are transposition of lenses ? mention the types.
- 15. What are materials used in spectacle making.

III. WRITE SHORT ANSWERS

- 16. Components of tear film.
- 17. Mention 3 methods to correct aphakia.
- 18. Types of glass given to corneal presbyopia.
- 19. How to check for accommodation ?
- 20. Bones forming orbit.
- 21. Components of trial set.
- 22. What is keratometry?
- 23. Mention 2 indications for axial length measurement.
- 24. Mention 2 uses of projective glasses.
- 25. Advantages of contact lens over spectacles.

2X10 = 20

10X5=50

10X2=20

PARAMEDICAL BOARD, BENG	GALURU
ANNUAL EXAMINATION, AUG	
I YEAR DIPLOMA / II YEAR CERTIFIC.	
DIALYSIS TECHNOLOGY (
	MAX. MARKS: 90
QP CODE- 2151, SECTION-A, PHAR	
(WRITE IN SEPARATE ANSWER B	
I. LONG ESSAY – ANSWER ANY <u>ONE</u>	1X10 = 10
1. Mention the various routes of drug administration with ex	xamples. Write the
advantages and disadvantages of oral route of drug admi	inistration.
2. Name SIX opioid analgesics. Mention TWO therapeutic us	ses, TWO adverse effects
and TWO contraindications of Morphine	
II. WRITE SHORT NOTES ON ANY <u>FIVE</u>	5X5=25
3. Aspirin	
4. Uses and adverse effects of Corticosteroids	
5. Oral contraceptives	
6. Enzymes in therapy	
7. Cotrimoxazole	
8. Drug Hypersensitivity reactions III. WRITE SHORT ANSWERS	5 X 2 = 10
9. Mention the disease caused due to deficiency of	5 X 2 - 10
a) Vitamin A b) Thiamine c) Vitamin D d) Folic acid	
10. Name four first line Antitubercular drugs	
11. Name TWO killed vaccines	
12. Name TWO colouring agents	
13. Mention TWO solid dosage forms.	
QP CODE- 2152, SECTION-B, THEOR	Y OF DIALYSIS
(WRITE IN SEPARATE ANSWER BOO	
I. LONG ESSAY - ANSWER ANY <u>ONE</u>	1X10 = 10
1. What are the different types of dialysers? What are the	e complications of
hemodialysis? How to monitor a patient on hemodial	ysis? (2+5+3)
2. Draw a line diagram to illustrate the process of water	purification in a dialysis
unit. (5+5)	
II. WRITE SHORT NOTES ON ANY <u>FIVE</u>	5X5=25
3. Precautions to be followed while dialysing an HIV pati	ient
4. What assessment should be carried out prior to constru	action of AV fistula
5. Draw a dialyser membrane and explain how it works	
6. Buffers used in dialysate solutions and their properties	\$
7. Precautions to be taken for haemodialysis for a patient	with chronic renal failure
8. Anticoagulation protocols in haemodialysis	
III WRITE SHORT ANSWERS	5X2=10
9. Give 2 indications of starting dialysis in acute renal fail	
10. The maximum period of use of a femoral and jugular of	
11. Current endotoxin standards for low flux and high flu	1x dialysis
12. Mention 2 altinizations of AV fightle upstrager and	us star asis
13. Mention 2 clinical signs of AV fistula upstream venou	is stenosis

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019** I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN **DENTAL MECHANICS (DDM) TIME: 1.30 HRS** (RS -1 SCHEME) MAX. MARKS: 45

QP CODE- 2171, DENTAL MATERIALS & METALLURGY

I. LONG ESSAY - ANSWER ANY ONE

- 1) What is the composition of Heat cure acrylic resin powder and liquid? Describe the Laboratory steps in fabrication of complete denture. (5 + 5)
- 2) Write any 2 classifications of impression materials. Write the composition and uses of Zinc oxide eugenol impression paste. (3 + 3 + 4)

II. WRITE SHORT NOTES ON ANY FIVE

- 3) Syneresis and imbibition
- 4) Draw the Diagram of impression tray
- 5) Advantages of base metal alloys
- 6) Composition of Alginate
- 7) Galvanic corrosion
- 8) Fluxes and antifluxes
- 9) Advantages of Glass ionomer cement

III. WRITE SHORT ANSWERS

10)Ni-ti wire

- 11)Hygroscopic expansion
- 12) Types of Inlay waxes
- 13)Ductility and malleability
- 14)Karat and Fineness

5 X 2 = 10

5 X 5 = 25

1X10 = 10

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN DENTAL HYGIENE (DDH) TIME: 1.30 HRS (RS -1 SCHEME) MAX. MARKS: 45

QP CODE- 2181, SECTION-A, GENERAL ANATOMY AND HISTOLOGY (WRITE IN SEPARATE ANSWER BOOK)

I. Long Essay (Any 1)

1. Describe Tempero Mandibular Joint under the following heading:

(a) Type of Joint, (b) Bones Forming, (c) Movements, (d) Applied Aspects.

2. Describe Facial Nerve

II. Short Notes (Any 2)

- 3. Maxillary Artery
- 4. Tongue
- 5. Histology of Parotid Salivary Gland

III. Short Answers

- 6. Name Muscles of Mastication
- 7. Name the Basic Tissues in the Body
- 8. Dental Formula

QP CODE- 2182, SECTION-B, GENERAL PHYSIOLOGY

(WRITE IN SEPARATE ANSWER BOOK)IWrite Short notes on any FIVE4 x 4 =161.Conductive system of Heart4 x 4 =162.Structure of Cell-3.Composition and Function of Bile-4.Blood groups-5.Actions of Growth Hormone-6.Mechanism of Urine Formation2 x 2 =47.Name the types of muscles-8.Functions of CSF

$3 \times 2 = 06$

 $2 \times 5 = 10$

 $1 \times 9 = 09$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY(DMIT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE- 5121, RADIATION PHYSICS

I. SHORT NOTES- ANSWER ANY EIGHT QUESTIONS

8x5 = 40

- 1. Construction and working of step up transformer
- 2. Rectification, purpose and mechanisms
- 3. IITV
- 4. Construction of stationary anode.
- 5. Components and functions of filament and tube circuits.
- 6. Give electromagnetic spectrum and their uses
- 7. Write note on Atom
- 8. Mention types of generators and phases
- 9. Describe Xray production and interactions
- 10. Working principle, merits and demerits of digital fluoroscopy

II .SHORT ANSWERS

- 11. Computed radiography
- 12. Pair production
- 13. Half life period in radioactivity
- 14. Automatic brightness control.
- 15. Ct collimators.
- 16. State Ohm's law with equation
- 17. Write note on overloading of an X-Ray tube.
- 18. Define potential, current and resistance
- 19. Write note on fuses
- 20. Define: primary, secondary and scattered radiation
- 21.Ct numbers
- 22.Ct artifacts.
- 23.Filters
- 24.Bone densitometry
- 25.Singleand three phase AC
- 26.State the importance of earthing of an electrical device
- 27.Production and properties of beta rays
- 28.Examples for elements, Isotopes and Isomers
- 29.Write note on cooling techniques used in X-ray tube.
- 30.State working principle of MRI

20x3

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN OPERATION THEATRE & ANESTHESIA TECHNOLOGY (DOT &AT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE- 5131 FUNDAMENTALS OF OT & BASIC CONCEPT IN SURGERY

I. SHORT NOTES- ANSWER ANY EIGHT QUESTIONS

8x5 = 40

20 X3 = 60

- 1. Staff nursey personnel team work
- 2. Intra and post operative evaluation
- 3. Microbiological safety
- 4. Concept of Central Supply Department
- 5. Day Care surgery
- 6. Electrical hazards and safeguards
- 7. Control of contamination in OT
- 8. Wound management and method of Haemostatsis
- 9. Monitoring of vital function and complications of operations
- 10. Checklist of patient before surgery

II. SHORT ANSWERS

- 11. Harmonic scalpel
- 12. Vacuum suction
- 13. Care and handling of instruments
- 14. Sterilization
- 15. Factors influencing wound healing
- 16. Pros and Cons disposables
- 17. Catheterization
- 18. Division of duties
- 19. Health care team
- 20. Post operative evaluation
- 21. Standards of preoperative nursing practice
- 22. Acceptance of operations
- 23. Gowning and gloving
- 24. Operative positions
- 25. Radiation hazards
- 26. Precautions ion using Cautery
- 27. Scavenging gases

28. Iodine

- 29. Pulse oximeter
- 30. Prevention of infection

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN DIALYSIS TECHNOLOGY (DDT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100 QP CODE- 5151, SECTION-A, APPLIED PHARMACOLOGY

(WRITE IN SEPARATE ANSWER BOOK)

I. SHORT NOTES - ANSWER ANY FOUR

- 1. Classify routes of drug administration. Mention the advantages of intramuscular route of drug administration.
- 2. Mention the uses and adverse effects of diazepam
- 3. Management of Hypovolemic shock.
- 4. Write the differences between Metoclopramide and Domperidone
- 5. Write the regimen of Anti-retroviral drugs used in post exposure prophylaxis

II. SHORT ANSWERS_

- 6. Mention the uses of Adrenaline.
- 7. Mention the drugs used in acute severe asthma
- 8. Mention the Parenteral Iron preparation and their uses.
- 9. Mention three vasopressors.
- 10. Mention the uses and adverse effects of Aspirin
- 11. Mention the uses and adverse effects of Insulin.
- 12. Sodium Bicarbonate
- 13. Mention three Proton Pump inhibitors and their uses
- 14. Mention three antibiotics contraindicated in renal failure
- 15. Name three crystalloids and their uses

QP CODE- 5152, SECTION-B, THEORY OF DIALYSIS (WRITE IN SEPARATE ANSWER BOOK)

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

- 1. Define diffusion, osmosis and convection in dialysis setting.
- 2. Precautions to be taken while dialyzing a sero-positive patient for patient and your safety.
- 3. Describe the advantages and disadvantages of peritoneal dialysis.
- 4. What are the types of renal failure? Mention the complications of renal failure.
- 5. Disinfection of haemodialysis machine- types, agents used and indications for disinfection

II. SHORT ANSWERS

- 6. What is transmembrane pressure (TMP) and its importance.
- 7. Mention the laboratory tests done in patients with renal failure.
- 8. Mention the Types of dialyzers based on flux.
- 9. Mention steps in storage of dialyzers.
- 10. Acid concentrate composition
- 11. Types of vascular access in HD
- 12. What is proportion of mixture of processed water: acid concentrate: bicarbonate?
- 13. Disadvantage of dialyzer reuse
- 14. When to discard the dialyzers during reuse?
- 15. What are the options for a patient with AV fistula failure?

10X3=30

41X5 = 20

4X5 = 20

prophylax 10X3=30

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY (DMRT)

TIME: 3 HRS

(RS -2 SCHEME)

MAX. MARKS:100

8 x 5=40

20x3=60

QP CODE: 5141, MEDICAL RECORD SCIENCE

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

- 1. Write a procedure to get a Wound Certificate.
- 2. Write a procedure to get a Physical Fitness Certificate.
- 3. Write the Values of Medical Records.
- 4. Define Public Servant.
- 5. Write the differences between Public documents and private document.
- 6. Define Personal Documents and Impersonal documents.
- 7. Define bailable and non bailable offences.
- 8. Define Warrant and list the types of warrants.
- 9. Write the duties and responsibilities of Medical Record Officer.
- 10. Write the procedure to release the information of medical records to the police.

II. SHORT ANSWERS

11. What is Cross Examination.

12.Define Pleader.

- 13.Define Judgment.
- 14.Define Plaintif.
- 15.Define Summons.
- 16.Write the procedure for production of documents in the court.

17.Define Decree.

18. Define Tracer Card and its uses.

- 19. Define Accession Register.
- 20. Define Operation Index and its uses.
- 21.Define Accident Register and its uses.
- 22.Write the Uses of Medical Records.
- 23.Write the qualitative analysis of Medical Records.
- 24.Define Diagnostic Index Card and its uses.
- 25.Write the procedure for issuing the Medical Records to the Police.
- 26.Define warrant.
- 27.Define Accident Register.
- 28.Define FIR.
- 29.Define Census and its uses.
- 30.Define wound certificate

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY(DOT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS:100

QP CODE: 5161, PAPER-I

I. SHORT NOTES - ANSWER ANY EIGHT 8 x 5=40 1. Write a neat diagram of V/S of the Eye ball and label the parts. 2. Explain laws of reflection. Illustrate with diagram. 3. Write a note on: a) Anisokonia b) Anisometropia 4. What is hyper metropia? How do you correct it, indicate with diagram. 5. Aphakia and its correction. 6. How do you test near and distant vision and materials used for testing. 7. How do you arrange dark room for conducting refraction? 8. Trial lens kit and its contents. 9. Write a diagram of lacrimal oparatus. 10. Write a short note on: a) Ametropia b) Amblyopia II. Short Notes answer all the questions of the following: 20X3=60 11. Types and causes of astigmatism. 12. Optical constants of the Eye. 13. What is Presbyoia. 14. Causes of myopia. 15. Types of Lenses. 16. Pinhole. 17. Advantage of contact lens. 18. Types of prescription lenses. 19. Give the prescription for the following refractions conducted: $+2.0_{D}$ - 6.0_D $\pm 0.2.5_{\rm D}$ +1.O_D - 6.O_D b) a) $+2.0_{D}$ 20. Types of bifocal lenses. 21. Parts of spectacle. 22. Methods of refraction 23. Diagnose the kind of refractive error for the following prescription given: 1. -2.O_D SPH BE 2. $+5.O_{D}$ SPH BE 3. -2.O_D/-1.O_D 90° BE 24. Keratometer 25. Slit lamp 26. Tonometer 27. Colour Vision 28. Drugs used in refraction

29. Refractive media of the Eye ball

30. Diagram of the Eye lens.

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS (DDM) TIME: 1.30 HRS (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5171, DENTAL MATERIALS & METALLURGY

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

4X5=20

- 1. What is an alloy and write about base metal alloys.
- 2. Addition silicon impression material
- 3. Tarnish and Corrosion
- 4. Glass ionomer cement
- 5. Steps in compression moulding technique

II. SHORT ANSWERS

- 6. Type IV Gypsum
- 7. Ductility and Malleability
- 8. Physical stages of polymerisation
- 9. Soldering and Welding
- 10. Electroplating
- 11. Fluxes and antifluxes
- 12. Niti wires
- 13. Setting reaction of Alginate
- 14. Inlay wax
- 15. Wet strength

10X 3 =30

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN DENTAL HYGIENE (DDH) TIME: 1.30 HRS (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5181, SECTION-A, GENERAL ANATOMY, HISTOLOGY

I. SHORT NOTES -ANSWER ANY <u>TWO</u> QUESTIONS	2X5=10
1. Describe facial nerve	
2. Describe epithelial tissue with examples	
3. Describe nerve supply and blood supply of tooth	
II. SHORT ANSWERS 5	5 x 3 = 15
4. Name the salivary glands	
5 Lymphatic drainage of face	
6. Name the muscles attached to mandible	
7. Name the branches of external carotid artery	
8. Name the bone cells	
QP CODE: 5182, SECTION-B, GENERAL PHYSIOLC)GY
I. SHORT NOTES -ANSWER ANY <u>TWO</u> QUESTIONS	2X5=10
1. Classify White blood cells. Write their functions	

- 2. Draw neat labelled diagram of conducting system of the heart
- 3. Explain the actions of Parathyroid hormone

II. SHORT ANSWERS

- 4. List the functions of Cell membrane
- 5. Name the types of movements of gastrointestinal tract
- 6. Name the different types of muscles
- 7. List the functions of lungs
- 8. Draw a neat labelled diagram of Taste bud

 $5 \times 3 = 15$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA IN PHYSIOTHERAPY (RS -2 SCHEME) MAX. MARKS: 100

TIME: 3 HRS

QP CODE: 4191, ANATOMY

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

- 1. Diaphragm
- 2. Pleura
- 3. Hip joint
- 4. Structures under the cover of Gluteal muscle
- 5. Stomach
- 6. First carpometacarpal joint
- 7. Lymphatic drainage of Breast
- 8. Cubital fossa
- 9. Pectoral girdle
- 10. Urinary bladder

II. SHORT ANSWERS

11. Linea aspera

12. Name the parts of Pancreas

13. Nerve supply of Tongue

- 14. Name the Flexors of forearm
- 15. Name the contents of Femoral triangle
- 16. Name the parts of Mediastinum
- 17. Sesamoid bone
- 18. Nerve supply of foot
- 19. Classification of joints
- 20. Draw a neat labelled diagram of Ventricles of Brain
- 21. Name the parts of Corpus callosum
- 22. Draw a neat labelled diagram of Blood supply of thyroid gland
- 23. Name the parts of Urethra
- 24. Mention the blood supply of Brain
- 25. Motor speech area
- 26. Name the layers of Retina
- 27. Classification of Connective tissue
- 28. Great saphenous vein
- 29. Name the structures in the Hilum of right Lung
- 30. Name the ligaments of Liver

 $20 \ge 03 = 60$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) TIME: 2 HRS (RS -1 SCHEME) MAX. MARKS: 65 QP CODE: 3201, SPORTS SCIENCE & PHYSIOTHERAPY

I. LONG ESSAY- ANSWER ANY FOUR

4X5=20

- 1. List five regional sports conditions in detail
- 2. How will you handle sports injury (soft tissue) for early and better prognosis?
- 3. Write on the principles of immediate First aid and treatment
- 4. Write in detail about the principles of physical education
- 5. What is tennis elbow? Explain Patho-mechanism, clinical features and rehabilitation programme for the same.

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

5X5=25

- 6.Golfer's elbow7.Sprain and strain8.Foot drop9.ACL injury10.Achilles tendon
- 11.Carpen Tunnel Syndrome

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS-1 SCHEME) MAX.MARKS: 90

I.LONG ESSAY: ANSWER ANY TWO

1. Write in detail the collection, physical examination, chemical examination and microscopy of CSF fluid. (2+2+2+4)

OP CODE: 3102, PATHOLOGY

- 2. Describe the procedure of blood grouping. Add a note on methods of cross matching (5+5)
- 3. What is osmotic fragility test? Write its use. And add a note on its procedure. (2+2+6)

II. SHORT ESSAY: ANSWER ANY TEN

- 4. Mention the steps of haematoxylin and Eosin staining technique.
- 5. Describe the procedure of demonstration of Barr bodies.
- 6. Mention different types of special stains used in histopathology.
- 7. Describe sickling test in detail.
- 8. Physical examination and microscopy of seminal fluid.
- 9. Automation in haematology.
- 10. Describe the types of blood grouping.
- 11. What is Coomb's test .Mention its types.
- 12. Write a note on transfusion reactions.
- 13. Mention different names of fixatives used in histopathology.
- 14. Preparation and staining of bone marrow smear
- 15. Microwave tissue processing.

III. SHORT ANSWERS

- 16. Name the components of blood.
- 17. Name any two histochemical staining techniques.
- 18. Prothrombin time.
- 19. Name any four screening tests done in blood bank.
- 20. Write the normal value of bleeding time and clotting time.
- 21. Mention the different sites of bone marrow aspiration.
- 22. Name any two immunohistochemical staining techniques.
- 23. Mention two fixatives used in cytology.
- 24. Name four body fluids.
- 25. Clot retraction time

10X5=50

10X2=20

2X10=20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS-2 SCHEME) MAX.MARKS: 100 QP CODE: 6103, PATHOLOGY

I. SHORT NOTES: ANSWER ANY EIGHT

- 1. Write in detail about Bone marrow examination.
- 2. Discuss about osmotic fragility test.
- 3. PT and APTT
- 4. LIS and HIS
- 5. Quality control in Blood Bank.
- 6. Microwave tissue processing.
- 7. Biological hospital waste management.
- 8. Frozen section.
- 9. Automation in coagulation tests.
- 10. Separation of blood components.

II. SHORT ANSWERS

- 11. Differential leucocyte count.
- 12. Materials required for bone marrow examination.
- 13. Bleeding time.
- 14. Foetal Hb.
- 15. Clot retraction time.
- 16. Causes of Eosinophilia.
- 17. Perls stain procedure.
- 18. Sites of bone marrow aspiration.
- 19. Importance of calibration and validation in pathology.
- 20. Indications for bone marrow examination.
- 21. Equipments used in Blood Bank.
- 22. Forward and Reverse grouping.
- 23. Coomb's test.
- 24. Selection of Donor.
- 25. Storage of blood components.
- 26. Embedding.
- 27. PAS stain procedure.
- 28. Different types of mounting Jars.
- 29. Preparation of Harris Haematoxylin.
- 30. Errors in section cutting

8X5=40

20X3=60

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI)** MAX.MARKS: 90

TIME: 3 HRS

(RS-1 SCHEME)

QP CODE: 3112. COMMUNITY MEDICINE, PAPER-II

I.LONG ESSAY: ANSWER ANY TWO

- 1 Define infant mortality rate. Write the causes of infant mortality rate and add a note on its prevention.
- 2 Define Family planning. Discuss in detail about terminal methods of contraception
- 3 Define health education. Discuss in detail Principles of health education

Π SHORT NOTES- ANSWER ANY TEN

- 4 Health problems of the aged people
- 5 School health appraisal
- 6 Intra- uterine devices
- 7 Postnatal Complications
- 8 Types of communication
- 9 Growth chart
- 10 Factors affecting fertility
- 11 Low birth weight
- 12 Baby friendly hospitals initiatives
- 13 Enumerate child health problems
- 14 Street children
- 15 Antenatal advice

III. SHORT ANSWERS

- 16 Advantages of condom
- 17 Growth rate
- 18 Target couple
- 19 Weaning
- 20 Audio-visual aids
- 21 Risk infants
- 22 Internet
- 23 Domiciliary care
- 24 Cold chain
- 25 Iron and folic acid tablets

10 X 2 = 20

2X10=20

 $10 \times 5 = 50$

PARAMEDICAL BOARD, BENGALURU	ſ
ANNUAL EXAMINATION, AUGUST 201	9
III YEAR DIPLOMA IN HEALTH INSPECTOR	(DHI)
TIME: 3 HRS (RS-2 SCHEME)	MAX.MARKS: 100
QP CODE: 6113. COMMUNITY MEDICINE	, PAPER-II
I. SHORT NOTE- ANSWER ANY <u>EIGHT</u>	8 X 5 = 40
1. Define antenatal care. Objectives of antenatal care	
2. Demography cycle	
3. Define family planning. Classify contraceptive methods	
4. Principles of health education	
5. Geriatric health problems	
6. ASHA	
7. Infant mortality rate and its causes	
8. Uses of growth chart	
9. Child abuse	
10. Types of communication	
II. SHORT ANSWERS	$20 \times 3 = 60$
11. Three causes of maternal mortality	
12. Permanent family planning methods	
13. Health education v/s counseling	
14. Antenatal advice	
15. Vaccines for pregnant women	
16. Growth rate	
17. Eligible couple	
18. Three advantages of breast feeding	
19. Weaning	
20. Exclusive breast feeding	
21. Health problems in adolescents	
22. Causes for under 5 mortality	
23. Role of health inspectors in PHC	
24. Street child	
25. Essential drugs	
26. Barriers of communication	
27. Danger signals in intranatal period	
28. Post natal complications	
29. Audio- visual aid	
30. Counseling	

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY (DMXT) TIME: 3 HRS (RS-1 SCHEME) MAX.MARKS: 90 QP CODE: 3122, RADIOGRAPHY INCLUDING MEDICAL RECORDS I. LONG ESSAY – ANSWER ANY TWO 2 X10 = 20

- 1) Explain barium swallow procedure with positioning and views
- 2) Briefly discuss about maintenance and record keeping of medico-legal films and general X-ray films
- 3) Intravenous pyelography (IVP) write about patient preparation and procedure

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

- 4) PACS(Picture Archiving And Communication System)
- 5) Write about general instruction given to patient for Chest X-ray imaging
- 6) Loopogram
- 7) Mention different views of chest X-xay?
- 8) Contrast reaction and First aid to patient
- 9) Medical Records
- 10)Write about exposure factors of X-ray imaging with example.
- 11) Micturating Cystourethrogram
- 12)Preparation given to patient for barium enema.
- 13)Write about bucky and its uses
- 14)Collimation
- 15)Dark room and uses

III. SHORT ANSWERS

16) Intravenous Contrast and mention types

- 17) Milliampere
- 18) Patient positioning for X-ray of Lumbo-Sacral Spine (L.S.Spine)
- 19)What is Centring?. Give two examples
- 20)Film Numbering
- 21)Fistulogram
- 22) Barium Sulphate Powder
- 23)View Box
- 24) High Speed Films
- 25)C-Arm

 $10 \ge 2 = 20$

 $10 \ge 5 = 50$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT) TIME: 3 HRS (RS-2 SCHEME) MAX.MARKS: 100 QP CODE: 6123

SPECIAL PROCEDURES, RADIOGRAPHIC PHOTOGRAPHY AND MEDICAL RECORDS

I. SHORT NOTE- ANSWER ANY EIGHT

- 1. What is barium? Write a note on barium studies and their uses.
- 2. Types of cholangiography
- 3. Radiographic contrasts
- 4. Role of MRI in CNS investigations
- 5. Role of CT as special investigation of respiratory tract
- 6. Intravenous urography
- 7. Hysterosalphingography
- 8. Arteriography- Technique and its uses.
- 9. Explain barium swallow
- 10. Side effects and toxicity of contrast agents and their treatment

II. SHORT ANSWERS

- 11. Small bowel enema
- 12. Micturating cystourethrography- Technique
- 13. Postoperative T tube cholangiography
- 14. Percutaneous nephrostomy
- 15. Tomography
- 16. Myelography
- 17. Side effects of contrast agents
- 18. Arthrography
- 19. Sonography
- 20. Peripheral venography of upper limb
- 21. Bronchography
- 22. Sialography
- 23. Barium enema
- 24. Types of contrast media
- 25. Write a note on forensic radiography
- 26. Role of ultrasound for the special investigation of urinary tract
- 27. Foreign body localization
- 28. Mobile radiography
- 29. Name any three instruments used in hysterosalphingography
- 30. Mammography

8 X 5 = 40

 $20 \times 3 = 60$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN OPERATION THEATRE TECHNOLOGY (DOTT) TIME: 3 HRS (RS-1 SCHEME) MAX.MARKS: 90 QP CODE: 3132, OPERATIVE PROCEDURE

I. LONG ESSAY - ANSWER ANY TWO

- 1. Explain the procedure of appendicectomy with diagram. Write about complication of appendix surgery.
- 2. Explain causes for chest trauma. Explain ICD procedure with diagram.
- 3. Define hemorrhagic shock. Explain management of hemorrhagic shock.

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

- 4. Wound healing
- 5. Types of hernia with diagram
- 6. Organ transplantation
- 7. Common operations in the urinary tract
- 8. Abdominal incisions
- 9. Amputation
- 10. Upper gastrointestinal Endoscopy
- 11. Skin grafting
- 12. Cast application
- 13. Repair of tendon
- 14. Gangrene toe
- 15. Angioplasty

III. SHORT ANSWERS

- 16. Advantage of Laparoscopy
- 17. Craniotomy
- 18. Circumcision
- 19. Lipoma
- 20. Bladder stone
- 21. Suction drain
- 22. Tissue holding forceps
- 23. Bronchoscopy
- 24. Chemotherapy
- 25. Wound disruption

2X10=20

10X5 = 50

10X2=20

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY (DOT &AT) TIME: 3 HRS** (RS-2 SCHEME) MAX.MARKS: 100 **QP CODE: 6133 OPERATIVE PROCEDURES** SHORT NOTE- ANSWER ANY EIGHT I. $8 \times 5 = 40$ 1. Cystoscopy. 2. Closed reduction. 3. Biopsy. 4. Tendon Repair. 5. Cataract Surgery. 6. Colonoscopy. 7. Types of Drain. 8. Fibroadenoma. 9. Lateral anal Sphincterctomy. 10. Deviated Nasal Septum. **II. SHORT ANSWERS** 20X3=6011. Laparoscopy. 12. Flash Sterilization. 13. Wound Excision. 14. Foley's Catheter. 15. Colostomy Care. 16. Babcock's forceps. 17. Sym's amputation. 18. Skin Graft. 19. OT cleaning types. 20. Position. 21. Fistulectomy.

- 22. Enema.
- 23. Scrubbing.
- 24. CSSD.
- 25. Splints.
- 26. Fasciotomy.
- 27. Suture materials.
- 28. Sterile Team members.
- 29. Dressing.
- 30. Types of Cautery.

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY (DMRT) TIME: 3 HRS (RS-1 SCHEME) MAX.MARKS: 90 QP CODE: 3142, HOSPITAL ADMINISTRATION

I. LONG ESSAY – ANSWER ANY TWO

- 1. What are Nosocomial infections? Role of Central Sterile Services Department (CSSD) in prevention of Nosocomial infections. (3+7)
- 2. Define Hospital. Classify and enumerate functions of the hospital. (2+8)
- 3. What is Job satisfaction? What are the indicators of Job satisfaction in employees? How to improve the working environment in hospital? (2+6+2)

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

- 4. Soft skills
- 5. Supportive Supervision
- 6. Hospital Disaster Action Plan
- 7. Explain Plan Do Check Act (PDCA) with examples
- 8. National Quality Assurance standards (NQAS)
- 9. Inventory management
- 10.Hospital grievance Redressal Procedures
- 11. Hospital Policies
- 12. Medical Negligence
- 13. Colour Coding of Bio Medical Waste
- 14. Electronic Medical records
- 15.Fire safety measures

III. SHORT ANSWERS

- 16. 108 ambulance services
- 17. Marketing of hospital services
- 18. How to calculate Bed occupancy rate and average length of stay
- 19. Death certificate
- 20. How to reduce Waiting time at Outpatient departments (OPDs)
- 21. Zoning of Operation theatres
- 22. Non value adding services
- 23. Security of New-born babies
- 24. Mistake proofing
- 25. Outsourcing of hospital services

$10 \times 2 = 20$

2X10=20

 $10 \times 5 = 50$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY (DMRT) TIME: 3 HRS (RS-2 SCHEME) MAX.MARKS: 100 QP CODE: 6143, HOSPITAL ADMINISTRATION

I. SHORT NOTES - ANSWER ANY EIGHT

8X5=40

- 1. Hospital acquired infection control committee.
- 2. What is the process of drug indenting in a district hospital?
- 3. Bed occupancy rate and Bed turnover ratio
- 4. Briefly describe the organization of casualty and emergency services.
- 5. Planning of NICU in a district hospital.
- 6. Fire safety in hospitals.
- 7. Plan for dietary services in a district hospital
- 8. Describe briefly about outcome indicators in a district hospital.
- 9. Quality control aspects in an hospital.
- 10. Functions of Nursing Superintendent.

II. SHORT ANSWERS

- 11. Enumerate three committees in an hospital.
- 12. Functions of housekeeping supervisors.
- 13. Health Insurance.
- 14. Administrative organization in a district hospital
- 15. Functions of Medical Superintendent.
- 16. Bio-Medical waste management
- 17. Importance of medical record section in an hospital.
- 18. History of hospitals in India.
- 19. Outcome indicators in a district hospital
- 20. High alert drugs in pharmacy.
- 21. Dress code in an hospital.
- 22. Functions of resident medical officer.
- 23. Patient feedback surveys.
- 24. Standard operating procedure.
- 25. Length of Stay
- 26. Average Daily Census
- 27. Enumerate three committees in an hospital.
- 28. Functions of an electrician in hospital.
- **29**. Electric generators in hospitals.
- 30. Importance of police out [post in hospitals.

20x3=60

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN DIALYSIS TECHNOLOGY (DDT)

TIME: 3 HRS

(RS-1 SCHEME) OP CODE: 3152, MAX.MARKS: 90

2X10=20

10X5 = 50

RENAL REPLACEMENT THERAPY OTHER THAN HAEMODIALYSIS & PATIENT TEACHING

- I. LONG ESSAY ANSWER ANY <u>TWO</u>
- 1. Define sustained low efficiency dialysis (SLED). Write in detail about the clinical indications, dialysis settings, anti coagulation protocol, advantages and disadvantages and complications of SLED (2+2+2+2+2)
- 2. Classify dialyzer types and membranes. Define and detail the following dialyzer specifications with examples: KUF, Urea Clearance, KOA and Priming Volume. (5+5)
- 3. Define continuous renal replacement therapy (CRRT). List the different types and the differences between them. Draw and explain the typical CRRT circuit. (2+6+2)

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

- 4. What is hemoperfusion? Indications and contraindications of hemoperfusion?
- 5. Regular lab investigations done in maintainencehemodialysis patients
- 6. Anatomy and blood supply of peritoneal membrane
- 7. Define plasmapheresis. Indications and contraindications of plasmapheresis.
- 8. Diet in ESRD
- 9. Composition of Peritoneal dialysis fluid
- 10. Indications for initiation of dialysis
- 11. Write on note on dialyser reprocessing
- 12. Define PET? How is it done?(2+3)
- 13. Write briefly about dialyser reactions.
- 14. Diagnosis and management of PD peritonitis
- 15. Permacath

III. SHORT ANSWERS

- 16. Name 2 diuretics used in hemodialysis patients
- 17. Name two viral infections that can be transmitted by blood
- 18. Name 2 types of replacement fluids used in plasmapheresis
- 19. Name 2 vital signs monitored during hemodialysis
- 20. Normal values of serum sodium and creatinine.
- 21. Mention 2 complications of hemodialysis
- 22. Name 2 alarms in hemodialysis machine
- 23. Universal precautions
- 24. What is SCUF?
- 25.2 complications of blood transfusion

10X2 = 20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN DIALYSIS TECHNOLOGY (DDT) TIME: 3 HRS (RS-2 SCHEME) MAX.MARKS:100 QP CODE: 6153, PAPER-II

I. SHORT NOTES ANY EIGHT

- 1. Indications and complications of peritoneal dialysis
- 2. Define plasmapheresis. Draw plasmapheresis circuit. What are the indications for plasmapheresis? (1+1+3)
- 3. Define pet. How do you perform it? (1+4)
- 4. Standard dialysate composition
- 5. Anticoagulation protocols
- 6. Define hemodiafiltration?Indications and advantage of hemodiafiltration?(2+2)
- 7. Acute peritoneal dialysis indications and complications
- 8. Draw water treatment part and label parts
- 9. COMPLICATIONS of central venous catheterisation.

II. SHORT ANSWERS

- 10. Diagnosis of CAPD peritonitis.
- 11. Types of CRRT
- 12. Physiology of peritoneal dialysis
- 13. Advantages and disadvantages of dialyser reuse
- 14. Name 3 antihypertensives?
- 15. Name 3 diuretics?
- **16**. Rule of 6 in AVF
- 17. Name 3 complications of plasmapheresis
- 18. Name 3 complications of chronic dialysis
- 19. Name 3 Indications for HD catheter removal
- 20. Priming of hemodialysis machine
- 21. Name 3 Vaccines in dialysis patients
- 22. Write the advantages and disadvantages of Arterio venous fistula.
- 23. Mention 3 clinical manifestations of inadequate dialysis?
- 24. Name 2 drugs that decrease potassium levels
- 25. List out 3 alarms and their causes in hemodialysis.
- 26. What are bio-compatible dialyzers? Give three examples.
- 27. How will you calculate urea reduction ratio and KT/V?
- 28. Explain Slow Continuous Ultra Filtration.
- 29. Write about pre dialysis patient assessment.

8X5=40

20X3=60

PARAMEDICAL BOARD, BENGALURU	
ANNUAL EXAMINATION, AUGUST 2019	
II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN	
OPHTHALMIC TECHNOLOGY (DOT)TIME: 3 HRS(RS-1 SCHEME)	MAX.MARKS: 90
QP CODE: 3162, PAPER-II	
I. LONG ESSAY – ANSWER ANY TWO	2X10=20
 Mention in detail the major and minor surgical records. 	
2) Write in detail about Eyebank- collection, preservation, tra	insportation and
publicity.	1
3) How do you plan for cataract camp under National progra	mme for control of
blindness?	
II. SHORT NOTES- ANSWER ANY <u>TEN</u>	5x10=50
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	2X10=20
16)Name 2 charts to test near vision	
17)Name 2 common eye diseases.	
18)Why statistics is important in hospital setup?	
19)Mention 2 major surgical records.	
20)Classification of vitamin A deficiency.	
21)Corneal FB management in a PHC	

22)Mention 2 functions of a eye bank

23)Disease index.

24) Alphabetical index.

25)Name 2 antibiotics.

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY (DOT) (RS-2 SCHEME) MAX.MARKS:100 OP CODE: 6163, PAPER-II

TIME: 3 HRS

I. SHORT NOTES- ANSWER ANY EIGHT

- 1. Eye Bank
- 2. Define anisometropia. Mention the importance of treating anisometropia in school children
- 3. Describe Various Methods of ophthalmic drug application
- 4. Describe 5 Uses of topical steroid eye drops in ophthalmology
- 5. Classify Anti-Glaucoma drugs
- 6. Emergency resuscitation -CPR(Cardia pulmonary resuscitation)
- 7. Methods of identifying shallow anterior chamber depth

8. NPCB

- 9. Role of the ophthalmic technician in Eye camp
- 10. School eye screening

II. SHORT ANSWERS

- 11. Dangers of indiscriminate use of steroid eye drops
- 12. Causes of Loss of Corneal window Reflex
- 13. Define blindness, and Types of blindness
- 14. Drugs used for Subconjunctival injection
- 15. DBCS (District blindness control society)
- 16. Consent Form for cataract surgery
- 17. Rehabilitation of blind
- 18. Role of protective eye gear at work place
- 19. Maintaining medico legal register
- 20. Importance of Fundus examination in patients with good vision
- 21. Uses of fluorescein in ophthalmology
- 22. Uses & side effect of miotics
- 23. Treatment of Lagophthalmos
- 24. Methods of storing donor cornea
- 25. Describe 3 Causes for Proptosis
- 26. Describe evaluation of watering eye
- 27. Describe 3 Causes for Sudden Painful Vision Loss
- 28. Describe 3 Conditions producing Acute Red Eye
- 29. Relative afferent Pupillary defect (RAPD)
- 30. Describe 3 Causes for Shallow anterior Chamber

8x5=40

20x3=60

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN DENTAL MECHANICS (DDM) TIME: 1.30 HRS (RS-1 SCHEME) MAX.MARKS: 45

QP CODE: 3172, PARTIAL DENTURES, ORTHODONTIA, MAXIOFACIALMPROSTHESIS

I. LONG ESSAY

1. Define Prosthodontics and write in brief about fabrication of cast partial denture .

II. SHORT NOTES

- 2. Principles of wire bending
- 3. Duplicating cast.
- 4. Waxing principles of crown and FPD.
- 5. Materials used in maxillofacial prosthesis.
- 6. Define die and die materials.

III. WRITE SHORT ANSWERS

- 7. Components of FPD.
- 8. Shaped blockout
- 9. Mention 4 different types of casting machine
- 10. Surveying tools.
- 11. Classify retainers.

5X5=25

1X10=10

5X2=10

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN DENTAL MECHANICS (DDM) TIME: 1.30 HRS (RS-2 SCHEME) MAX.MARKS: 50 QP CODE: 6172 PARTIAL DENTURES, ORTHODONTIA, MAXIOFACIALMPROSTHESIS

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

- 1. Different Die systems.
- 2. Describe Kennedy's Classification.
- 3. Components of FPD.
- 4. Mechanical principles of orthodontia.
- 5. Principles of RPD design.

II. WRITE SHORT ANSWERS

- 6. Minor connectors.
- 7. Duplicating material.
- 8. Define soldering and welding.
- 9. Mandibular major connectors.
- 10. Parts of surveyor
- 11. Different types of Pontic design
- 12. Aplligate's rule any three.
- 13. Colour coding in RPD
- 14. Connector in FPD
- 15. Mention 4 different types of casting machine

10X3=30

4X5=20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE (DDH) TIME: 1.30 HRS (RS-1 SCHEME) MAX.MARKS: 45

QP CODE: 3182

DENTAL HEALTH EDUCATION, SOCIAL & PUBLIC HEALTH & PREVENTIVE DENTISTRY

I. LONG ESSAY1. Describe The Dental Plaque Control Measures.	1X10=10
II. WRITE 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 Health	L
5. Dental Health Education	
6. Habits And Effect On Dental Structures	
III. WRITE SHORT ANSWERS	5X2=10
7. Chlorexidine Mouth Wash	
8. Topical Fluoride Application	
9. Oral Health In Handicapped	
10. Environmental Health	
11. Habit Breaking Appliance.	

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN DENTAL HYGIENE (DDM)

TIME: 3 HRS

(RS-2 SCHEME) MAX.MARKS: 100 OP CODE: 6183

DIAGNOSIS & TREATMENT OF PERIODONTAL DISEASE

I. SHORT NOTES-ANSWER ANY EIGHT QUESTIONS

8X5=40

- 1. Describe different chemical plaque control agents.
- 2. Write parafunctional habits and explain any one.
- 3. Write basic principles of instrumentation.
- 4. Write indications and contra indications of ultrasonic scalers.
- 5. Mention Different brushing techniques and explain modified Boss method..
- 6. Periodontal probes.
- 7. Rules and regulations of dental hygiene.
- 8. Management of diabetes mellitus patients.
- 9. Classify periodontal instruments.
- 10. OHIS index.

II. SHORT ANSWERS

- 11. Oral irrigation devices.
- 12. Inter dental aids.
- 13. Define dental hygiene.
- 14. Name Sutures materials.
- 15. Name periodontal dressing.
- 16. Define dental plaque.
- 17. Signs of Syncope.
- 18. Drugs used in Asthma.
- 19. Periodontal findings of 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. Treatment of Shock.
- 25. Name types of Haemophilia.
- 26. Blood glucose levels.
- 27. Precautions to be taken in HIV patient..
- 28. Precautions to be taken in HBV infection.
- 29. Methods to check for sharpness of instruments.
- 30. Eruption cyst.

20X3=60

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN PHYSIOTHERAPY (DTP)

TIME: 3 HRS

(RS-2 SCHEME) QP CODE: 5193 THERAPEUTIC EXERCISE

MAX.MARKS: 100

I. SHORT NOTES- ANSWER ANY EIGHT

8 X 5 = 40

- 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

 $20 \ge 3 = 60$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR CERTIFICATE COURSES (RS-1 SCHEME) MAX.MARKS: 45

TIME: 1.30 HRS

QP CODE: 1102 CHEMISTRY

I. LONG ESSAY - ANSWER ANY ONE

- 1) Explain the preparation, properties and uses of Ethyl alcohol.
- 2) Explain the preparation of Nitric acid by Ostwald's process. Mention any two properties and uses of nitric acid.

II.WRITE SHORT NOTES ON ANY FIVE

- 3) Tyndal effect and Brownian movement
- 4) Types of Buffer solutions
- 5) Half life period
- 6) Oxidizing and reducing agents
- 7) Difference between colloids and crystalloids
- 8) Properties of Alpha, Beta and Gama rays
- 9) Classify hydrocarbons with examples and use for each

III. WRITE SHORT ANSWERS

- 10) Mention two uses of Sodium hydroxide
- 11) Define A) Acid B) Base
- 12) Structure of Glycine and Alanine
- 13) Types of RNA
- 14) Why methane is called marsh gas?

1 X 10 =10

5 X 5 =25

5 X 2 =10

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMIANTION, AUGUST 2019 FIRST YEAR DIPLOMA COURSES, (RS-2 SCHEME) RS OP CODE: 4103, CHEMISTRY Max Marks:100

Time: 3.00HRS QP CODE: 4103, CHEM I.SHORT NOTES -ANSWER ANY EIGHT

8 X 5=40

- 1. Explain preparation of Nitric acid by Ostwald's process
- 2. Define pH. Mention the pH values of any five biological fluids
- 3. Describe the preparation of ethyl alcohol from molasses
- 4. Write the structure of A) Glycine B) Alanine C) Serine D) Aspartic acid E) Tyrosine
- 5. Atomic weight and Molecular weight
- 6. Define pollution. Mention the causes of water pollution
- 7. Define half life period. Mention the applications of cobalt-60 and iodine-131 isotopes
- 8. Define A) Oxidation and B) Reduction. Give one example for each
- 9. Match the following

Α	В
a) Starch	i) Honey
b) Glycogen	ii) Milk
c) Cellulose	iii) Seeds
d) Lactose	iv) Liver
e) Fructose	v) Plant cell wall

10. Choose the correct answers

- A) Drinking soda is i) Alkaline ii) Acidic iii) Neutral iv)Oxidant
- B) UV radiation is striking the earth is due the depletion of i)oxygen ii) ozone iii)CO iv) CO₂
- C) The gas chiefly present in LPG (liquefied petroleum gas) is i) Butane ii)Propane iii)Ethane iv)Methane
- D) Silk fiber chemically is i) Fat ii) protein iii) carbohydrate iv) cellulose
- E) PVC is obtained by the polymerization of i)propane ii) butane iii) vinyl chloride iv)Acetylene

 $20 \times 3 = 60$

II. SHORT ANSWER

- 11. Name the SI Units for A) Length B) Mass C) Time.
- 12. Define an atom. Name the sub-atomic particles of an atom.
- 13. Define (i) Acid (ii) Base (iii) Salt. Mention one example for each
- 14. Define (i) Molarity (ii) Normality.
- 15. What is Aquaregia? Mention its uses
- 16. Name three indicators
- 17. Global warming
- 18. Mention three uses of phenol
- 19. Define a buffer solution. Mention different types of buffer solutions.
- 20. Give the calculation for preparing 100ml of 0.1N NaOH
- 21. Mention three uses of salicylic acid
- 22. Mention three applications of colloids
- 23. Milk sugar
- 24. Define a) Enzyme b) Co-enzyme and c) Apoenzyme
- 25. Calculate the percentage of Carbon and Oxygen in glucose(C₆H₁₂O₆)
- 26. Mention different types of RNA and their functions
- 27. Mention the causes of soil pollution
- 28. Define matter and mention the states of matter
- 29. Calculate the molar mass of a) H₂O b) CO₂ and C) CH₄

30. Fill in the blanks

- i) CuSO₄ is the chemical formula of.....
- ii) H_2O_2 is the chemical formula of
- iii) Na₂CO₃ is the chemical formula of

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019** I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY(DMLT) (RS -1 SCHEME) TIME: 3 HRS MAX. MARKS: 90

QP CODE: 2103, BIOCHEMISTRY

I. LONG ESSAY- ANSWER ANY TWO

- 1. What are carbohydrates? Name two monosaccharides and mention their biomedical importance. Write the principle of Benedict test. (2+5+3)
- 2. Define enzyme activity. Explain the factors affecting enzyme activity. (3+7)
- 3. What are autoanalyzers? Mention the types of autoanalyzers. Discuss the operation and management of fully automated analyzer. (2+2+6)

II.SHORT ESSAY- ANSWER ANY TEN

- 4. Precautions and maintenance of pH meter
- 5. Types of salts
- 6. Flame photometer
- 7. Biomedical importance of carbohydrates
- 8. Diagnostic enzymes
- 9. Dry chemistry analyzers
- 10. Components of spectrophotometer
- 11. Precautions taken while handling acid and alkalies in laboratory
- 12. Polysaccharides
- 13. Rancidity
- 14. Isoelectric precipitation of proteins
- 15. Structure of an atom

III. SHORT ANSWERS- (ANSWER ALL)

- 16. What are aromatic compounds? Give examples
- 17. Name the fundamental particles in an atom and mention their charge
- 18. What is titration? Name any two acid-base indicators.
- 19. What are the uses of autoclave in laboratory?
- 20. Name any two isoenzymes used in diaganosis of disease
- 21. Normal levels of serum calcium and sodium
- 22. Define molecular weight
- 23. What are fatty acids? List two examples
- 24. Give one example for metalloprotein and hemoprotien
- 25. Define aldoses. Give an example for aldohexose.

2x10=20

10x5=50

10x2=20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5103, BIOCHEMISTRY

I. SHORT NOTES -ANSWER ANY EIGHT QUESTIONS $8 \times 5 = 40$

- 1) Classify carbohydrates. Add a note on reducing and non reducing sugars.
- 2) Factors affecting enzyme activity.
- 3) Describe about the use, care and maintenance of water distillation plant and water Deioniser.
- 4) Name fat soluble vitamins. Mention the functions & deficiency diseases of vitamin D.
- 5) Different types of deliquescent and hygroscopic salts.
- 6) Spectrophotometer labeled the parts. Write their maintenance and uses.
- 7) Preparation of standards using conventional and SI units.
- 8) Write about phlebotomy and specimen collection, storage, transport and Disposal.
- 9) Laboratory laws and regulations & quality control.
- 10) Different types of Balances.

II. SHORT ANSWERS (ANSWER ALL)

- 11) Write about cleaning of plastic ware in laboratory.
- 12) Night blindness.
- 13) Lowry Bronsted theory of Acids and Bases.
- 14) Patient data registration.
- 15) Incubators.
- 16) 10% Nacl solution preparation.
- 17) Amino acid definition & classifications.
- 18) Functions of Phospholipids.
- 19) Structure of DNA.
- 20) P^H meter and electrodes use, care and maintenance.
- 21) Centrifuge.
- 22) Water bath.
- 23) Reflex condenser
- 24) Hot air Oven.
- 25) Calibration of glass pipettes.
- 26) Internal Quality Control.
- 27) Transamination.
- 28) Normal values of sodium, potassium and chloride.
- 29) Lipid profile.
- 30) Isoenzymes.

20 x 3=60

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2111, COMMUNITY MEDICINE, PAPER-I

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 ESSAY- 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. Function 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 (ANSWER ALL)

- 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

2x10=20

10x5=50

10×2=20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN HEALTH INSPECTOR (DHI) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5111, COMMUNITY MEDICINE, PAPER-I

I. SHORT NOTES-ANSWER ANY EIGHT QUESTIONS

 $8 \ge 5 = 40$

- 1. Name organs of digestive system & write functions of liver
- 2. Write functions of nervous system
- 3. Describe structure with labelled diagram and list function of heart
- 4. The Femur bone
- 5. Define Health & write about determinants of health
- 6. Explain Epidemiological triad with labelled 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 ANSWER (ANSWER ALL)

- 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

 $20 \times 3 = 60$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY (DMXT) TIME: 1.30 HRS (RS -1 SCHEME) MAX. MARKS: 45

QP CODE: 2122, ANATOMY

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

- 1. Classify the Epithelium with examples.
- 2. Name the parts of the Urinary System with a labelled diagram. Describe Kidney in brief. (5+5)
- 3. Name the parts of Male reproductive system with a labelled diagram. Describe testis in brief. (5+5)

II. SHORT NOTES- ANSWER ANY <u>THREE</u>

- 4. Knee Joint
- 5. Left Lung
- 6. Para Nasal Air Sinuses
- 7. Stomach

III. SHORT ANSWERS

- 8. Name the types of cartilages
- 9. Write two differences between Large Intestine and Small Intestine
- 10. Bones forming Hip Joint
- 11. Name the bones of the Hand
- 12. Name parts of the Brain

 $2 \times 10 = 20$

 $5 \ge 2 = 10$

 $3 \times 5 = 15$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT) TIME: 1.30 HRS (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5123, ANATOMY

I.SHORT NOTES- ANSWER ANY FOUR

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(ANSWER ALL)

- 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

 $10 \ge 03 = 30$

 $04 \ge 05 = 20$

PARAMEDICAL BOARD, BENGALURU	
ANNUAL EXAMINATION, AUGUST 2019	
I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE	IN
OPERATION THEATRE TECHNOLOGY (DOTT)	
TIME: 3 HRS (RS -1 SCHEME) MAX. MAR	KS: 90
QP CODE: 2132, SECTION-A, BIOCHEMISTRY	
(ANSWER IN- <u>BLUE</u> BOOKLET ONLY)	
I.LONG ESSAY - ANSWER ANY <u>ONE</u>	1x10=10
1. Describe digestion and absorption of Carbohydrates. $(5+5)$	
2. What are Physical Characteristics and chemical constituents of Normal Urine	
II.WRITE SHORT NOTES ON ANY <u>TWO</u>	2X5=10
3. Metabolic acidosis.	
4. Urea cycle	
5. Formation of Uric acid.	
III.WRTIE SHORT ANSWERS	5X2=10
6. Test to detect Blood sugar in urine.	
7. What are acids. Give examples	
8. Name the serum electrolytes	
9. Anion gap	
10. Normal values of Urea and Creatinine	
QP CODE: 2133, SECTION-B, PHARMACOLOGY	
(ANSWER IN-RED BOOKLET ONLY)	
· · · · · · · · · · · · · · · · · · ·	
I LONG ESSAY- ANSWER ANY <u>ONE</u>	1X10=10
1. Name six Parenteral route of drug administration. Mention two advantages &	two
disadvantages of Intravenous route of drug administration. [6+2+2]	
2. Name four commonly used PENICILLINS . Mention two uses ,two adverse eff	ects &
mechanism of action of PENICILLINS. [4+2+2+2]	
II. WRITE SHORT NOTES ON ANY <u>TWO</u>	2X5=10
3. Lignocaine	
4. Morphine	
5. Calculate the dose of a drug for the patient weighing 40 kg., if a adult dose is 1	0 mg/kg body
weight.	
III. WRITE SHORT ANSWERS	5X2=10
9. Mention two Inhalational Anaesthetics.	
10. Name two drugs for Leprosy.	
11. Mention two uses of Cotrimoxazole	
12. Name Two uses of Diazepam	
13. Name two Adverse effects of Aspirin	
QP CODE: 2134, SECTION-C, MICROBIOLOGY	
(ANSWER IN- <u>PURPLE</u> BOOKLET ONLY)	
I LONG ESSAY- ANSWER ANY <u>ONE</u>	1X10=10
1. Define and classify sterilisation. Describe in detail chemical disinfection.(2+3+5	
2. Define and classify hypersensitivity. Discuss in detail type 1 hypersensitivity.	,
II. WRITE SHORT NOTES ON ANY TWO	2X5=10
3. Standards of air quality in the operation theatre	
4. Biomedical waste management	
5. Active immunity	
III. WRITE SHORT ANSWERS	5X2=10
6. Louis Pasteur	
7. Name four articles sterilised in hot air oven	
8. Draw a neat labelled diagram of Human Immunodeficiency Virus.	
9. Name four Gram positive bacteria	
10. Name two anaerobic bacteria.	

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN OPERATION THEATRE & ANAESTHESIA TECHNOLOGY (DOT &AT)** TIME: 3 HRS (RS -2 SCHEME) **MAX. MARKS: 100 QP CODE: 5133, SECTION-A, BIOCHEMISTRY** (ANSWER IN-BLUE BOOKLET ONLY) I.SHORT ESSAY - ANSWER ANY FIVE. 5x5=25 1) Define and classify carbohydrates with examples. 2) Acid base balance in the body. 3) Principles and application of estimation of electrolytes. 4) Define purines and pyrimidines. Explain the structure of DNA in detail. 5) Discuss in detail about ionization of water. 6) Renal function tests. **II.SHORT ANSWERS** 5x3=15 7) Benedicts test. 8) Respiratory alkalosis. 9) Essential amino acids. 10) Universal indicators. 11) Abnormal constituents of urine. QP CODE: 5134, SECTION-B, APPLIED PHARMACOLOGY (ANSWER IN-RED BOOKLET ONLY) **I.SHORT ESSAY - ANSWER ANY THREE** 3x5=15 1. Mention the advantages and disadvantages of Intra-Venous route of Drug administration 2. Mention three Local Anaesthetics. Mention the techniques of administration of Local Anaesthetics and mention three contraindications for Spinal Anaesthesia 3. Intravenous inducing agents 4. Diazepam **II.SHORT ANSWERS** 5x3=15 5. Mention three skeletal muscle relaxants 6. Name three Penicillins and mention three uses of them 7. Mention three drugs used in Anaphylactic shock 8. Mention three drugs used for pre Anaesthetic medication 9. Define Anti-septics and mention two Antiseptics **QP CODE: 5135, SECTION-C, MICROBIOLOGY** (ANSWER IN-PURPLE BOOKLET ONLY) I. SHORT ESSAY - ANSWER ANY THREE 3x5=15 1. Koch's Postulates 2. Define and Classify Sterilization 3. Classify Immunity and describe active immunity with examples 4. Classify Bacteria and draw a neat labeled diagram of Bacterial cell **II.SHORT ANSWERS** 5x3=15 5. Name three disease caused by Staphylococcus aureus 6. List the Mode of transmission of HIV 7. Fumigation 8. Bacterial filters

9. Define Nosocomial Infection and Mention three bacterial causing it.

	PARAMEDICAL BOARD, BEN	NGALURU
	ANNUAL EXAMINATION, AU	JGUST 2019
I YEAR D	IPLOMA /II YEAR CERTIFICATE	COURSE IN MEDICAL
	RECORDS TECHNOLOGY	
TIME: 3 HRS	(RS -1 SCHEME)	MAX. MARKS: 90
	QP CODE: 2142, SECTION-A, A	ANATOMY
	(ANSWER IN- <u>BLUE</u> BOOKLET ON	
I. LONG ESSAY - ANS	WER ANY <u>ONE</u>	$1 \times 10 = 10$
1. Name the parts of 1	Respiratory System with a labelled diagrar	n. Describe Pleura in brief. (6+4)
-	Male Reproductive System with a labelled	0
II. SHORT NOTES		$2 \times 5 = 10$
3. Pancreas	n	
4. Classification of III. SHORT ANSWERS	Bones	$5 \ge 2 = 10$
5. Name four Crar	ial Nerves	3 x 2 - 10
6. Name the Carpa		
7. Name two Veins		
8. Name two joints		
9. Name the parts	of Fallopian Tube	
	QP CODE: 2143, SECTION-B, PH	IYSIOLOGY
	(ANSWER IN- <u>RED</u> BOOKLET ON	ILY)
I. SHORT NOTES O	N ANY <u>FOUR</u>	4 x 5 =20
1) Composition and	d functions of Bile	
2) Actions of Thyro	vid hormone	
3) Pulmonary func	tion tests	
4) Conducting syst	tem of heart	
5) Anticoagulants		
6) Abnormal consti	tuents of Urine	
II. SHORT ANSWER	S	5 x 2 =10
7) Neat labelled di	agram of ECG	
8) Functions of CS	F	
9) Apnoea		
10) Name refractiv	re errors	
,	y planning methods.	
, 5	E: 2144, SECTION-C, PATHOLOG	
QI COD	(ANSWER IN-PURPLE BOOKLET C	
I .LONG ESSAY - ANS	·	1X 10=10
	eeping in pathology	
-	ious investigations done in microbiology	
II. SHORT ESSAY -ON		2X5=10
3. Tests done on ur		
4. Tuberculosis		
5. Gram stain		
III . SHORT ANSWERS		5X2=10
	m negative organisms	372-10
	ase caused by virus	
	2	
8. Name TWO fung	-	
	fections caused by streptococcal organism	L
10. Name TWO inte	estinal parasites	

PARAMEDICAL BOARD, BENGALU	JRU
ANNUAL EXAMINATION, AUGUST	2019
II YEAR DIPLOMA IN MEDICAL RECORDS TECH	NOLOGY (DMRT)
TIME: 3 HRS (RS -2 SCHEME)	MAX. MARKS: 100
QP CODE:5143, SECTION-A, ANAT	OMY
∼ (ANSWER IN- <u>BLUE</u> BOOKLET ONLY)	
I. SHORT NOTES (Answer any 2)	2 X 5 = 10
1. Classify Joints with examples	
2. Draw neat labelled diagram of Eye ball	
3. Describe Palatine tonsil	
II. SHORT ANSWERS	10 X 3 = 30
4. Name the Sutures of skull	
5. Name the Anatomical movements	
6. Name the parts of Pancreas	
7. Name the Ear Ossicles	
8. Name the Ventricles of Brain	
9. Name the Salivary glands	
10. Name the branches of Femoral artery	
11. Name the parts of Male Reproductive organs	
12. Name the Lymphoid organs	
13. Describe Oesophagus	
QP CODE:5144, SECTION-B, PHYSIO	LOGY
(ANSWER IN- <u>RED</u> BOOKLET ONLY)	
I. SHORT NOTES (Answer any THREE questions)	3X5=15
1. Types and Functions of WBC'S	
2. Electrocardiogram	
3. Renal function tests	
4. Defecation	
II.SHORT ANSWERS	
5. Define Apnea, Dyspnea, & Tachypnea	
6. Cryptorchidism	
7. Functions of Middle Ear	
8. Bleeding time & Clotting time	
9. Functions of Growth hormone.	
QP CODE:5145, SECTION-C, PATHOLOGY & N I. (ANSWER IN- <u>PURPLE</u> BOOKLET ONI	
II. SHORT NOTES: Answer any THREE questions.	3X5=15
1. Define inflammation. Add a note on types with examples.	
2. Rheumatic Heart Disease.	
3. Carcinoma stomach.	
4. Tuberculosis of lung.	
II. SHORT ANSWERS	5X3=15
5. Osteomyelitis.	
6. Myocardial Infarction.	
7. Name common infectious diseases – any 6.	
8. Mention Three fungi.	
9. Mention any 6 Bacterias.	

	PARAMEDICAL BOARD, BENGALU	IRU
	ANNUAL EXAMINATION, AUGUST	2019
	I YEAR DIPLOMA / II YEAR CERTIFICATE C	
	DIALYSIS TECHNOLOGY (DDT)	
тімі	E: 3 HRS (RS -1 SCHEME)	MAX. MARKS: 90
1 11011		
	QP CODE: 2153, SECTION-A, BIOCH	EMISIKI
	I. (ANSWER IN- <u>BLUE</u> BOOKLET ONLY)	
II.	LONG ESSAY - ANSWER ANY <u>ONE</u>	1x10=10
	1. What are the factors regulating normal blood glucose le	evel. Give the normal
	range of blood glucose levels (7+3)	
	2. What are the factors affecting blood pH? Add a note on	renal regulation of
	Blood pH.(4+6)	
III.	WRITE SHORT NOTES ON ANY <u>FIVE</u>	5x5=25
	3. Differences between colorimeter and Spectrophotometer	r
	4. Physical Characteristics of normal urine.	
	5. Urea Cycle	
	6. Principle and applications of pH meter in dialysis	
	7. Clearance tests	
	8. Disorders of Acid base balance	
IV.	WRITE SHORT ANSWERS	5x2=10
	9. Applications of chromatography in dialysis	
	10. Define Acid with Examples	
	11. Organic constituents of Normal urine	
	12. Benzidine Test.	
	13. Normal values of Urea and Creatinine	
	QP CODE: 2154, SECTION-B, MICR	ROBIOLOGY
	(ANSWER IN- <u>RED</u> BOOKLET ONLY)	
	(
I. LONG	G ESSAY - ANSWER ANY ONE	1x10=10
	1. Define sterilisation and list the methods of sterilisation. D	
	moist heat.(2+3+5)	<i></i>
	2. Describe the structure, pathogenicity and laboratory diag	mosis of Human
	Immunodeficiency Virus.(3+2+5)	Grieble of Trainalt
IL SHO	RT NOTES – ANSWER ANY FIVE	5x5=25
	3. Active Immunity	
	4. Anaphylaxis	
	5. Louis Pasteur	
	6. Universal precautions	
	7. Fumigation of operation theatre	
	· ·	
III CIIC	8. Bacterial growth curve DRT ANSWERS	Ex-2-10
111. SHC		5x2=10
	9. BCG vaccine	
	10. Draw a neat labelled diagram of Hepatitis B virus	
	11. Name two chemical disinfectants	
	12. Name two anaerobic bacteria	
	13. Name two opportunistic fungal infections	

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN DIALYSIS TECHNOLOGY (DDT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100 QP CODE: 5153, SECTION-A, BIOCHEMISTRY (ANSWER IN-BLUE BOOKLET ONLY)

I. SHORT NOTES – ANSWER ANY FOUR.

- 1. Define carbohydrate? Write their classification.
- 2. Discuss the concept of acid base reaction.
- 3. Write in brief about renal function tests.
- 4. Define salt and write the classification.
- 5. Renal regulation of blood pH.

II. SHORT ANSWERS

- 6. Metabolic acidosis.
- 7. Different methods of glucose estimation.
- 8. Pattern of cardiac enzymes in heart disease.
- 9. Write different types of RNA and their functions.
- 10. Universal indicators.
- 11. Define hypertension? Write different types of hypertension.
- 12. Deionised water.
- 13. Define carbohydrate? Write their functions.
- 14. Lipoproteins.
- 15. Deficiencies of vitamin D.

QP CODE: 5154, SECTION-B, MICROBIOLOGY (ANSWER IN-<u>RED</u> BOOKLET ONLY)

I. SHORT NOTES - ANSWER ANY FOUR.

- 1. Differences between active and passive immunity.
- 2. Tetanus
- 3. Define sterilisation. Write in brief about moist heat sterilisation.
- 4. Seggregation of biomedical waste.
- 5. Serological markers of Hepatitis B virus infection.

II. SHORT ANSWERS

- 6. Draw a neat labelled diagram of Human immunodeficiency virus.
- 7. Name three causative agents of meningitis.
- 8. Infections caused by Candida.
- 9. Name three live attenuated vaccines.
- 10. Name three causative agents for surgical site infection.
- 11. Enumerate three fungal opportunistic infections associated with HIV.
- 12. DPT vaccine
- 13. Pasteurisation
- 14. Mantoux test.
- 15. Significant bacteriuria.

4×5=20

10×3=30

4×5=20

10×3=30

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY (DOT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90 QP CODE: 2162, PAPER-II

I. LONG ESSAY – ANSWER ANY <u>TWO</u>

- 1) Define Conjunctivitis. Mention types of Conjunctivitis, write about clinical features and treatment.(1+3+3+3)
- 2) Define Cataract. Types of cataract. Diagnosis and treatment of Cataract.(1+3+3+3)
- 3) Define Amblyopia. Types of Amblyopia. Write a note on patching therapy.(2+4+4)

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

- 4) Vitamin A deficiency.
- 5) Types of Tonometry. Explain applications of Tonometry.
- 6) Clinical features of ocular trauma.
- 7) Chronic Dacrocysitis.
- 8) Cycloplegics in refraction testing.
- 9) Post operative medications after cataract surgery.
- 10) First Aid in chemical injury of the eye.
- 11) Spring cataract.
- 12) Oral glycerol.
- 13) Classification of diabetic retinopathy.
- 14) Causes of watering of eye.
- 15) Clinical features of acute Iridocyclitis.

III.SHORT ANSWERS

- 16) Name two antiglaucoma drugs.
- 17) Dry eye symptoms.
- 18) Signs of Acute Conjunctivitis.
- 19) Name two antiglucoma surgery.
- 20) Name two antibiotics used in ophthalmology.
- 21) Name two steroids used in ophthalmology.
- 22) Name two antihistaminic drugs used in allergic Conjunctivitis.
- 23) Treatment of Blepharitis.
- 24) Two signs of Keratoconus.
- 25) Two causes of red eye.

10X2=20

2X10=20

10 X5=50

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN OPHTHALMIC TECHNOLOGY (DOT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100 QP CODE: 5163, PAPER-II

I. SHORT NOTES- Answer Any EIGHT Questions

- 1. Define Cataract. Describe stages of maturation of Cortical Cataract
- 2. Classify Corneal Ulcer
- 3. Lacrimal sac syringing method & interpretation
- 4. Describe five differences between acute Conjunctivitis & Acute iridocyclitis
- 5. Describe first Aid Management of Acute alkali injury
- 6. Optic Disc Changes in Glaucoma
- 7. WHO Classification of Vitamin A Deficiency
- 8. Stages of Diabetic retinopathy
- 9. Binocular Single Vision
- 10.Visual filed Defects in Glaucoma

II. SHORT ANSWERS

- 11. Treatment of VIT A deficiency
- 12. Ophthalmia Neonatorum
- 13. Complication of corneal ulcer
- 14. Conservative management of cataract
- 15. Describe risk factors for Diabetic Retinopathy
- 16. Describe types of cataract surgery
- 17. Write morphological classification of cataract
- 18. Macular Function test
- 19. Describe three causes for sudden loss of vision
- 20. Describe procedure for removal of corneal foreign body
- 21. Principal of applanation Tonometry
- 22. Define & classify Squint
- 23. Non-Contact tonometer
- 24. Drugs Used to reduce intraocular pressure
- 25. Screening for Glaucoma
- 26. A scan Biometry
- 27. Treatment of Squint
- 28. Methods to visualize optic disc
- 29. Hypertensive Retinopathy
- 30. Treatment of Diabetic Retinopathy

20x3=60

8x5=40

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA /II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS (DDM)

TIME:1. 30 HRS (RS -1 SCHEME) MAX. MARKS: 45

QP CODE: 2172, APPLIED ORAL ANATOMY

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

1) Describe the anatomy of mandibular permanent first molar with diagrams

2) Maxillary denture bearing areas

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

- 3) Muscles of mastication
- 4) Carving
- 5) Different tooth numbering systems
- 6) Significance of posterior palatal seal area
- 7) Temporomandibular joint
- 8) Retromolar pad
- 9) Muscles of soft palate

III. SHORT ANSWERS

- 10)Denture relieving areas
- 11)Define occlusion
- 12)Bilabial sounds
- 13)Significance of incisive papilla
- 14)Mesial aspect of maxillary canine

5X5=25

1X10=10

5X2=10

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN DENTAL MECHANICS (DDM)

TIME: 1. 30 HRS (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5172, APPLIED ORAL ANATOMY

I. WRITE SHORT NOTES ON ANY FOUR

4 X 5 = 20

 $10 \times 3 = 30$

- 1) Anatomy of Permanent Maxillary 1st Molar
- 2) Overjet and overbite
- 3) Posterior Palatal Seal Area
- 4) Teeth Numbering Systems
- 5) Movements of Temporomandibular Joints(TMJ)

II. WRITE SHORT ANSWERS

- 6) Rugae
- 7) Buccal Shelf Area
- 8) Frenum and its significance
- 9) Denture Relief Areas
- 10) Dento-Labial Sounds
- 11) Hamular Notch
- 12) Parotid Duct
- 13) Buccinator
- 14) Keys of Occlusion
- 15) Curve of Spee

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019** I YEAR DIPLOMA /II YEAR CERTIFICATE COURSE IN DENTAL **HYGIENE (DDH)**

(KS - I SCHEWE) WAA. WAARS. 45	TIME:1. 30 HRS	(RS -1 SCHEME)	MAX. MARKS: 45
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QP CODE: 2183

SECTION-A, GENERAL PATHOLOGY & MICROBIOLOGY

(ANSWER IN-<u>BLUE</u> BOOKLET ONLY)

I. LONG ESSAY- ANSWER ANY ONE

1. Describe the stages of development of tooth with neat labelled diagram.

Mention the causes of dental caries.

2. What is Leucoplakia. Write an essay on oral manifestations of systemic infections

II. SHORT NOTES- ANSWER ANY FOUR

- **3.** Differences between benign and malignant tumours.
- Write a note on wound healing
- 5. Importance of sterilisation in microbiology
- 6. Write briefly about dental anomalies
- 7. Vitamin C Deficiency
- 8. Mention the types of cellular degeneration with examples.

III. SHORT ANSWERS

- 9. Name two gram positive bacteria
- 10. Name two causes of oral ulcers.
- 11. What is dental attrition.

OP CODE: 2184, SECTION-B, PHARMACOLOGY

(ANSWER IN-<u>RED</u> BOOKLET ONLY)

I. SHORT ANSWERS

 $5 \ge 2 = 10$

- 1. Name TWO Semisynthetic Penicillins
- 2. Name TWO deficiency diseases of Vitamin D
- 3. Write TWO differences between NSAIDs and Opioids
- 4. Write TWO differences between Heparin and Warfarin
- 5. Write the rationale of combining Adrenaline with Local Anaesthetics

3x 2 = 6

4x5 = 20

 $1 \times 9 = 9$

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN DENTAL HYGIENE (DDH)**

TIME:1. 30 HRS (RS -2 SCHEME) MAX. MARKS: 50

QP CODE: 5183

SECTION-A, GENERAL PATHOLOGY & MICROBIOLOGY (ANSWER IN-<u>BLUE</u> BOOKLET ONLY)

SHORT NOTES: Answer any FOUR questions. Ι. 4X5=20

- 1. Describe the development of teeth and histology of enamel.
- 2. Dental Anomalies.
- 3. Neoplasm.
- 4. Define inflammation. Describe the cellular events of acute inflammation.
- 5. Sterilisation procedures.

SHORT ANSWERS: П.

- 6. Vitamin C deficiency.
- 7. Attrition.
- 8. Periodontal infections.
- 9. Dentine.
- 10.Oral candidiasis.

OP CODE: 5184, SECTION-B, APPLIED PHARMACOLOGY (ANSWER IN-RED BOOKLET ONLY)

I. SHORT ESSAY (ANSWER ANY ONE)

- 1. Define essential drugs mention 5 essential drugs.
- 2. Define Antiseptics mention 2 Mouth Wash agents and 2 Gargle agents.

II. SHORT ANSWERS

- 3. Define Drug. Mention one drug from Plant source.
- 4. Mention 2 commonly used NSAID's and 2 adverse effects of it.
- 5. Write briefly on Lignocaine.
- 6. Name 2 Anti Microbial agents and 2 uses.
- 7. Write 2 uses of Metronidazole.

5 X 2 = 10

1 X 5 = 5

5X3=15

SHORT NOTES- ANSWER ANY FOUR QUESTIONS I.

- 1. Define carbohydrate? Write their classification.
- 2. Write the functions and deficiencies of vitamin A.
- 3. Write in brief about liver function tests.
- 4. Define cell. Write functions of any four subcellular organelles.
- 5. Write the effect of hormones on various metabolisms.

II. SHORT ANSWERS

- 6.Phospholipids.
- 7. Denaturation of protein.
- 8. Balanced Diet.
- 9. Define enzyme? Write two clinical importance of enzyme.
- 10. Essential amino acids.
- 11. Kwashiorkar.
- 12. Write functions of proteins.
- 13. Detoxification.
- 14. Poly Unsaturated Fatty Acids (PUFA).
- 15. Creatinine clearance test.

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019** I YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)

(RS -2 SCHEME) **MAX. MARKS: 100** TIME:3 HRS **OP CODE: 4193, SECTION-A, PHYSIOLOGY** (ANSWER IN-BLUE BOOKLET ONLY)

I. SHORT NOTES -ANSWER ANY FOUR QUESTIONS

- 1. List the different Neuroglial cells and write ONE function of each
- 2. Define Blood Pressure. Give its normal value. List the mechanisms of Short term regulation of Blood pressure
- 3. Draw neat labelled diagram of Visual pathway
- 4. List the differences between Upper motor neuron lesion and Lower motor neuron lesion
- 5. Define Haemostasis. What is the role of platelets in haemostasis?

II. SHORT ANSWERS

- 6. Define Endocytosis and Exocytosis
- 7. Functions of Haemoglobin
- 8. Write a brief note on Rigor mortis
- 9. Importance of pulmonary surfactant
- 10. Methods of artificial respiration
- 11. List the different types of movements seen in small intestine
- 12. List the functions of growth hormone
- 13. List the methods of temporary contraception
- 14. Write THREE functions of Hypothalamus
- 15. Write the steps of Urine formation

OP CODE: 4194, SECTION-B, BIOCHEMISTRY

(ANSWER IN-RED BOOKLET ONLY)

 $10 \times 3 = 30$

4 X 5 = 20

10 X 3 = 30

 $4 \times 5 = 20$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN PHYSIOTHERAPY (DPT)

TIME:2 HRS (RS -1 SCHEME) MAX. MARKS: 65

QP CODE: 3202, YOGA & MENTAL HEALTH

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. Jala neti
- 9. Padmasana
- 10. Samadhi
- 11. Yogic diet

4X10=40

5X5-25

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3103, MICROBIOLOGY

I.LONG ESSAY - ANSWER ANY TWO

- 1. Name Antigen-antibody reactions. Describe ELISA (5+5)
- 2. Classify Mycobacteria. Describe laboratory diagnosis of Pulmonary tuberculosis (4+6)
- 3. Name bacteria causing Meningitis. Describe laboratory diagnosis of Meningitis (5+5)

II. SHORT NOTES - ANSWER ANY TEN

- 4. Classify Immunity
- 5. Robert Koch
- 6. Universal safety precautions
- 7. Biomedical waste disposal
- 8. Diseases transmitted by blood transfusion.
- 9. Laboratory diagnosis of Malaria
- 10. Laboratory diagnosis of HIV.
- 11. Candidiasis
- 12. Autoclave
- 13. Blood culture
- 14. Handling and care of Microscopes
- 15. Antibacterial sensitivity testing

III. SHORT ANSWERS

- 16. Name two motile bacteria
- 17. Name two sexually transmitted diseases
- 18. Name two transport media
- 19. Name two spore forming bacteria
- 20. Name two malarial parasites
- 21. Draw a neat labelled diagram of a bacterial spore
- 22. Name two urease positive bacteria
- 23. Draw a neat labelled diagram of IgG
- 24. Name two staining techniques
- 25. Name two biochemical media

10x 2=20

10 x 5=50

2x10 = 20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100 QP CODE: 6105, MICROBIOLOGY

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

8X5=40

- 1. Laboratory diagnosis of pulmonary tuberculosis
- 2. Laboratory diagnosis of Enteric fever
- 3. Laboratory diagnosis of Candida infection.
- 4. Life cycle of Ascaris lumbricoides
- 5. Biomedical waste segregation and disposal
- 6. Laboratory diagnosis of Cryptococcosis
- 7. VDRL test
- 8. Laboratory diagnosis of HIV infection
- 9. Coagulase test
- 10. Write in brief about collection and processing of urine sample for culture

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. Universal precautions
- 17. India Ink Preparation.
- 18. Lepromin Test
- 19. Name any three species of Aspergillus.
- 20. Draw a neat labelled diagram of Hepatitis B Virus.
- 21. Modes of Transmission of HIV Infection.
- 22. Hydatid Cyst.
- 23. Classification of Vibrio Cholerae
- 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.

20X3=60

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN HEALTH INSPECTOR (DHI) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 3113, COMMUNITY MEDICINE, PAPER-III

I.LONG ESSAY - ANSWER ANY TWO

- 1. Define Primary health care. Describe the functions of medical officer. (3+7)
- 2. Enumerate voluntary health agencies in India. Discuss the functions of Red Cross Society(5+5)
- 3. Enlist international health agencies. Describe the services of UNICEF.(5+5)

II. SHORT NOTES- ANSWER ANY TEN

- 4. Indian factories act.
- 5. Domiciliary treatment.
- 6. Health hazards of agricultural workers.
- 7. Works of W.H.O.
- 8. Disinfection of well.
- 9. Social security.
- 10. Note on essential drugs.
- 11. First aid services in case of traffic accident.
- 12. Food and agriculture organization.
- 13. Occupational cancers
- 14. Genetic counselling.
- 15. Role of indigenous system of Health care

III. SHORT ANSWERS

- 16. World Bank.
- 17. Levels of Health care.
- 18. What are the Notifiable diseases
- 19. Farmer's Lung.
- 20. Define Ergonomics
- 21. Panchayat raj
- 22. Health problems in our country Any 2
- 23. Health Insurance Schemes
- 24. Name 2 hazards of radiation exposure
- 25. Occupational Dermatitis

$10 \ge 2 = 20$

 $10 \ge 5 = 50$

-5)

2X10=20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN HEALTH INSPECTOR (DHI) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6115, COMMUNITY MEDICINE, PAPER-III

I.SHORT NOTES- ANSWER ANY EIGHT

- 1. Define Primary health care. Write functions of Primary Health Centre
- 2. Expand UNICEF. Describe the services rendered by UNICEF in detail
- 3. What is Pneumoconiosis? Write briefly on silicosis
- 4. Occupational hazards of agricultural workers
- 5. Write briefly about Millennium development goals
- 6. Word Health Day
- 7. Health care delivery system in India
- 8. Indian Red Cross
- 9. Functions of Anganwadi worker
- 10. Lead poisoning

II.SHORT ANSWERS

- 11. Causes of Sickness Absenteeism.
- 12. Panchayat Raj
- 13. Worm composting
- 14. Bio-medical waste management at outreach immunization session
- 15. International Labour Organization.
- 16. Types of disaster
- 17. Ergonomics
- 18. Infections transmitted through bio-medical waste
- 19. Pre-placement examination
- 20. Prevention of floods
- 21. Universal precautions to prevent HBV/HIV infections
- 22. Control of dust generated in wood industry
- 23. Elements of Primary health care
- 24. Explain "appropriate technology" with examples
- 25. List six roles of Medical officer
- 26. Write about social insurance
- 27. List benefits to employees under "Employees State Insurance Act"
- 28. Prevention accidents in Agriculture industry
- 29. Write population norms for Sub centre, Primary Health Centre and Community Health Centre
- 30. AYUSH

$20 \times 3 = 60$

8X5=40

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019** II YEAR DIPLOMA/III YEAR CERTIFICATE COURSE IN **MEDICAL X-RAY TECHNOLOGY (DMXT)** MAX. MARKS: 90 TIME: 3 HRS (RS -1 SCHEME)

QP CODE: 3123, RADIOGRAPHY INCLUDING NEWER IMAGING TECHNOLOGY

I. LONG ESSAY - ANSWER ANY TWO

- 1) What is computerized radiography; discuss how it is different from conventional radiography
- 2) What is HSG? Enumerate in detail the technique involved and its medical application
- 3) Write a note on a magnetic resonance imaging physics. Describe any two sequences in MRI.

II. WRITE SHORT NOTES ON ANY TEN

- 4) PACS System
- 5) Step-Down Transformer
- 6) Fixer
- 7) Intensifying Screens
- 8) CT KUB
- 9) Double Contrast Barium Swallow
- 10) Artifacts In Radiography
- 11) Hounsfield Units (CT Number)
- 12) Urograffin
- 13) TLD Badge
- 14) Rotating Anode Tube
- 15) Planning of Dark Room

III. WRITE SHORT ANSWERS

- 16) Cathode
- 17) Collimator
- 18) Pressure-Injector
- 19) Gadolinium
- 20) Anatomy Of Long Bone
- 21) Doppler Effect
- 22) Towne's View
- 23) Piezo Electric Effect
- 24) Hangers
- 25) Half Value Layer

$10 \ge 2 = 20$

 $2 \times 10 = 20$

 $10 \ge 5 = 50$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 6125, RADIOGRAPHIC PHOTOGRAPHY AND IMAGING PROCESSING

I. SHORT NOTES- ANSWER ANY EIGHT

- 1. Discuss structure, speed and uses of intensifying screens.
- 2. Working principle, merits and demerits of digital radiography
- 3. Discuss the different types of film faults and procedures to prevent the same
- 4. Different methods of film processing
- 5. Points to be considered while planning a dark room
- 6. Structure of X -ray films
- 7. Factors affecting washing and drying
- 8. What are radiographic films. Draw the cross section of a double emulsion film
- 9. Safelight
- 10. Dark room Technique

II. SHORT ANSWERS

- 11. Film graininess
- 12. Fluorescence
- 13. Screen and non-screen films
- 14. Loading and unloading of a cassette
- 15. Define magnification, distortion and penumbra
- 16. Labelling and presentation of a radiograph
- 17. Replenishment
- 18. Film artefacts
- 19. Ventilation of a dark room
- 20. Factors affecting safelight performance
- 21. Types of X-ray films
- 22. Single coated films
- 23. Types of cassettes
- 24. Principle and features of automatic processor
- 25. How to avoid scatter radiation?
- 26. Methods of rinsing
- 27. Wetting agents
- 28. Causes and prevention of fogs
- 29. Stains- Types, causes and prevention
- 30. List the different methods of film processing

 $8 \times 5 = 40$

20 x 3 =60

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY (DMRT) TIME: 1.30 HRS (RS -1 SCHEME) MAX. MARKS:40

QP CODE: 3143, COMPUTER SCIENCE

I.	LONG ESSAY - ANSWER ANY <u>ONE</u>	1x10=20
	1) Briefly explain the components of Computers	
	2) Uses of HIMS Software in Medical Records Department?	
II.	SHORT NOTES- ANSWER ANY <u>FOUR</u>	4X5=20
	3) Central Processing unit	
	4) What are the data collected in OP/IP registration counter t	hrough
	software? Explain	
	5) MS Power Point	
	6) LAN	
	7) What is the Integrated Software? Explain.	
III.	SHORT ANSWERS	5X2=10
	8) Compact Disk	
	9) Electronic Mail	
	10) Input and Output Device	
	11) Networking	
	12) Desktop and Laptop	

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY (DMRT) TIME: 1.30 HRS (RS -2 SCHEME) MAX. MARKS:50

QP CODE: 6145, COMPUTER SCIENCE

I SHORT NOTES -ANSWER ANY FOUR

4 X 5 = 20

- 1. Write the list of different reports generated through computers
- 2. Uses of computerization in Medical Records Department
- 3. Which are all the data we can store in the computers
- 4. Define Internet and explain about E-mail.
- 5. Define Electronic Medical Records and its uses.

II SHORT ANSWERS

- 6. Define computer.
- 7. Brief about the types of Memory.
- 8. Define Computer Applications.
- 9. Name the three storage devices.
- 10. Brief about the Hard Ware.
- 11. Define Network and list the types of Networks.
- 12. Define Printer and mention the types of Printers.
- 13. Brief about the Scanner.
- 14. Define RAM and mention its uses.
- 15. Define CPU and mention its uses.

 $10 \times 3 = 30$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA /III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE (DDH) TIME: 1.30 HRS (RS -1 SCHEME) MAX. MARKS:45

QP CODE: 3183

OPERATING ROOM TEHNIQUE, CHAIR SIDE ASSISTANTS & DENTAL MATERIALS, ETHICS & JURISPRUDENCE

I. LONG ESSAY

1. Describe in detail dentist act 1948 and its relation to registration of dental hygienist.

II. SHORT NOTES

- 2. Medico legal issues in dental practice.
- 3. Sterilization and care of dental instruments.
- 4. Appointment and recall.
- 5. Dental specialties.
- 6. Charting and recording.

III. SHORT ANSWERS

- 7. Billing.
- 8. Materials used for making impression.
- 9. Types of periodontal dressing.
- 10. Dental auxiliary.
- 11. Four handed dentistry.

5x5=25

1X10=10

5X2=10

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN DENTAL HYGIENE (DDH) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS:100

QP CODE: 6185

PUBLIC HEALTH DENTISTRY, ETHICS & JURISPRUDENCE, DENTAL MATERIALS

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

8x5=40

- 1. Community Dentistry.
- 2. Psychological Aspects of Child and Parents.
- 3. Environmental Health.
- 4. Write in brief on oral Cancer.
- 5. Define Ethics Professional Ethics and Ethical Matters related to Health Care.
- 6. Instrument Sterilization.
- 7. Impression Materials.
- 8. General Epidemiology.
- 9. Water Supply to Community and their implications on Dental Health.
- 10. Oral Manifestations of HIV

II. SHORT ANSWERS

- 11. Drawing in dental health.
- 12. Audiovidual Aids.
- 13. Glass Ionomer Cement.
- 14. Dental Stone.
- 15. Cavity Varnish.
- 16. Plaster Of Paris.
- 17. Water Fluoridation.
- 18. Disclosing Agents.
- 19. Patient Recall.
- 20. Silver Amalgam.
- 21. Write Dental Specialities.
- 22. Defluoridation of Water.
- 23. Die Stone.
- 24. Use of Plaster Models.
- 25. Zinc Oxide Eugenol.
- 26. Manipulation Of Periodontal Dressing
- 27. Charting And Recording
- 28. Chair Side Assistance.
- 29. Supportive Periodontal Therapy
- 30. Computers in Dentistry.

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20x3=60

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS:100 QP CODE: 5195

I. SHORT NOTES- ANSWER ANY EIGHT

8 X 5 = 40

- 1. Pain gate control theory
- 2. Describe the physiological effects and uses of MWD.
- 3. Composition & Application methods of Wax bath therapy.
- 4. Therapeutic benefits of ultrasound.
- 5. Indications and contraindications of SWD.
- 6. Physiological & Therapeutic effects of Wax bath therapy
- 7. Kromayer lamp
- 8. Principle and types of LASER.
- 9. Therapeutic effects & indications of galvanic current
- 10. Contrast bath.

II. SHORT ANSWERS

- 11. EMG
- 12. Motor unit
- 13. Latent Heat of fusion
- 14. Whirl pool bath
- 15. Micro Current
- 16. Contraindications of TENS
- 17. Indication for wax bath
- 18. LEWIS therapy
- 19. Dangers of MWD
- 20. Faradic current
- 21. Cryotherapy
- 22. Safety precautions of LASER
- 23. Coupling media
- 24. Types of UVR
- 25. Therapeutic effects of SWD
- 26. Dangers of UVR
- 27. Different frequencies in US
- 28. Stimulation of motor points
- 29. Electrode placement in TENS
- 30. Dangers of IRR

 $20 \ge 3 = 60$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR CERTIFICATE COURSES RS (RS -1 SCHEME) MAX. MARKS:45 QP CODE: 1103, BIOLOGY

TIME: 1.30 HRS

I. LONG ESSAY – ANSWER ANY <u>ONE</u>

1 X 10 =10

5 X 5 = 25

5 X 2 =10

- 1) Explain the mechanism of working of human heart
- 2) Draw a neat labelled diagram of the respiratory system and explain the mechanism of breathing.

II. WRITE SHORT NOTES ON ANY <u>FIVE</u>

- 3) Structure of tRNA and its functions
- 4) Structure of a eukaryotic animal cell
- 5) Human blood group system and Rh typing
- 6) Fertilization
- 7) Define tumor and mention the types of tumor
- 8) Classification of enzymes
- 9) Urine formation

III. WRITE SHORT ANSWERS

- 10) Mention two applications of DNA fingerprinting
- 11) Structure of Sperm
- 12) Ribosomes
- 13) Chemical composition of DNA
- 14) Name the parts of brain

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA COURSES

TIME: 3 HRS

(RS -2 SCHEME) QP CODE: 4105, BIOLOGY

8 X 5=40

MAX. MARKS: 100

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

- 1. Describe the structure and functions of placenta
- 2. Define cell division. Mention 4 differences between mitosis and meiosis.
- 3. Draw a neat and labelled diagram of human eye
- 4. Draw a neat and labelled diagram of section of human heart
- 5. Describe the structure of neuron with a labelled diagram
- 6. Explain the steps involved in recombinant DNA technology
- 7. What are hormones? Describe the hormones of anterior pituitary with functions.
- 8. Explain the respiration process in human beings
- 9. Match the following

Α	В
a) Mitochondria	i) Kidney
b) Blood Pressure	ii) Pancreas
c) Insulin	iii) Salivary gland
d) Nephron	iv) Power house of the cell
e) Amylase	v) Sphygomanometer

10. Multiple choice questions

- a) Alveoli is the functional unit of i) Heart ii) Liver iii) Lungs iv) Kidney
- b) White blood cells act as i) a defence against infection ii) source of energy iii) for clotting of blood iv) a medium for oxygen transport from lung to tissue
- c) Which of the following is an example of a tissue i) Brain ii) Blood iii) Liver iv) Stomach
- d) Blood group which has no antibodies 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

- 11) Tidal volume
- 12) Structure of human sperm
- 13) Blood Pressure
- 14) Structure of Graafian follicle
- 15) Mention three functions of saliva
- 16) Mention three functions of skin
- 17) Name three diseases caused by bacteria
- 18) Define Fertilization and mention the types of fertilization
- 19) Mention three functions of blood
- 20) What is gene therapy? Mention the types
- 21) Applications of monoclonal antibodies.
- 22) Mention three 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) Mention three functions of Kidney
- 29) Types of chromosomes based on the position of centromere.

30. Fill in the blanks

- (i) Structural and functional unit of kidney is------
- (ii) AIDS is caused by -----
- (iii) ------ type of sex determination is seen in human being

20x3=60

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2104, PATHOLOGY

I. LONG ESSAY: ANSWER ANY TWO

- 1. Describe the method of urine sample collection. Write in detail the on chemical examination of urine. (5+5)
- 2. Mention the different methods of haemoglobin estimation. Describe the procedure of haemoglobin estimation with neat labelled diagram. (2+4+4)
- 3. Write in detail the steps of tissue processing. Mention the names of instruments with neat labelled diagram used in histopathology. (4+4+2)

II. SHORT ESSAY: ANSWER ANY <u>TEN</u>

- 4. Packed cell volume (PCV).
- 5. Write a note on dehydration in tissue processing.
- 6. Write the parts of blood smear. Name the stains used in staining the peripheral blood smear.
- 7. Name the components of blood and its uses.
- 8. Mention the different methods of collection of blood samples.
- 9. Write the principle and procedure of Benedicts test.
- 10. Mention the names of different anticoagulants and its uses.
- 11. Mention the names of fixatives used in tissue processing.
- 12. Describe the procedure of WBC counting
- 13. Write a note on decalcification.
- 14. Write a note on physical examination of urine.
- 15. Draw a neat labelled diagram of reticulocyte. Describe the procedure of reticulocyte count.

III. SHORT ANSWERS

- 16. Write the merits and demerits of sahil' s haemoglobin estimation.
- 17. Draw a neat labelled diagram of RBC pipette.
- 18. Write the principle and procedure of Benzidine test.
- 19. Draw a neat labelled diagram of Urinometer .
- 20. What is ESR. Mention factors affecting ESR.
- 21. Draw a neat labelled diagram normal RBC and abnormal RBCs.
- 22. Mention preservatives used for collecting urine sample
- 23. Mention two names of clearing agents.
- 24. Mention two names of stains used in cytology.
- 25. Draw a neat labelled diagram of Wintrobes tube.

10X2=20

- -)

10X5=50

2X10=20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5105, PATHOLOGY

20X3=60

I. SHORT NOTES- ANSWER ANY <u>EIGHT</u> QUESTIONS 8X5=40 1. Fixatives used in Histopathology. 2. Tissue processing. 3. Different types of anticoagulants. 4. Methods of Blood collection.

- 5. Physical examination of urine.
- 6. Methods of haemoglobin estimation.
- 7. Reticulocyte count.
- 8. Preparation and staining of peripheral smear.
- 9. Sputum examination.
- 10. CSF examination.

II. SHORT ANSWERS

- 11. Microscopic examination of urine.
- 12. Stool for occult blood.
- 13. Equipments used in Histopathology lab.
- 14. Different types of vacutainers.
- 15. Preparation of WBC diluting fluid.
- 16. Name Romanowskey stains.
- 17. Platelet count.
- 18. Morphology of abnormal RBC's.
- 19. MCV- calculation and importance.
- 20. Blood grouping.
- 21. Sperm morphology.
- 22. Fixation of cytology smears.
- 23. Name body fluids.
- 24. Barr bodies.
- 25. Decalcification.
- 26. AEC.
- 27. Preservation and Transport of CSF.
- 28. Pap smear- uses.
- 29. PCV.
- 30. Microscopy of ova cyst

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019** I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN **HEALTH INSPECTOR (DHI)** TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90 **OP CODE: 2112, COMMUNITY MEDICINE, PAPER-II**

LONG ESSAY: ANSWER ANY TWO I.

- 1. What are the functions of proteins? Discuss the factors involved in protein energy malnutrition (PEM)(5+5)
- 2. What are the causes of air pollution? What are the hazards? How do you prevent them?(3+3+4)
- 3. What do you mean by refuse? What are the sources & hazards? Describe methods of disposal of refuse.(2+3+5)

II. SHORT NOTES- ANSWER ANY TEN

- 4. Measures of dispersion.
- 5. Conservation of water.
- 6. Mid day meal.
- 7. Integrated vector control.
- 8. Types of ventilation.
- 9. Essential fatty acids.
- 10. Iron deficiency anemia
- 11. Manifestation of Iodine deficiency disorder.
- 12. Pasteurization of milk.
- 13. Food adulteration.
- 14. Incineration.
- 15. Sanitation barrier.

III. SHORT ANSWERS

- 16. Green house effect.
- 17. Name two diseases transmitted by housefly
- 18. Super Chlorination.
- 19. Pellagra.
- 20. Name two milk born diseases.
- 21. Name two insecticides.
- 22. Scurvy
- 23. Bitot spots.
- 24. Comfort zone.
- 25. Types of Family.

2x10=20

2X10=20

10x5=50

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN HEALTH INSPECTOR (DHI) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100 QP CODE: 5113, COMMUNITY MEDICINE, PAPER-II

I. SHORT NOTES- ANYSWER ANY EIGHT

8 X 5 = 40

- 1. Global Warming and its preventive and control measures.
- 2. Prevention and control of Air Pollution
- 3. Life cycle of Itch Mite
- 4. Anti-Adult measures
- 5. Discuss the General characteristics, diseases transmitted and control measures of Sand Fly
- 6. Housing and Health discuss
- 7. Explain sanitation barrier with diagram
- 8. Water related diseases
- 9. Enumerate the methods of Solid Waste Disposal. Discuss any one in detail
- 10. Slow sand (Biological) filters

II. SHORT ANSWERS

 $20 \times 3 = 60$

- 11. Safe and Wholesome water
- 12. Composting
- 13. Sling Psychrometer
- 14. Use of Horrock's Apparatus
- 15. Uses of Water Seal in a Water Seal latrine
- 16. Health hazards associated with swimming pool
- 17. Deworming
- 18. Human habits in Ascariasis
- 19. Steps of chlorination of well
- 20. Control of Noise Exposure
- 21. Rain water harvesting
- 22. Overcrowding
- 23. Sewage farming
- 24. Paris green
- 25. Biological transmission
- 26. Biological effects of radiation
- 27. Oxidation pond
- 28. Zoonoses
- 29. Stool examination
- 30. Septic tank

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / II YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY (DMXT) TIME: 1.30 HRS (RS -1 SCHEME) MAX. MARKS: 45 QP CODE: 2123, PHYSIOLOGY

I. LONG ESSAY - ANSWER ANY ONE

- 1. Describe different lung volumes and capacities with neat diagram. (5+5)
- 2. Name hormones of anterior pituitary gland. Describe the functions of growth hormone. Add a note on Acromegaly. (4+4+2)

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

- 3. What is anemia? Describe different types of anemia.
- 4. Anticoagulants.
- 5. Cardiac output.
- 6. Composition & functions of saliva.
- 7. Menstrual Cycle.
- 8. Mechanism of formation of urine.
- 9. Hypoxia

III. SHORT ANSWERS

- 10. Name two gastrointestinal hormones.
- 11. Write two functions of liver.
- 12. Hypermetropia & its correction.
- 13. Name two functions of cerebrospinal fluid.
- 14. Normal values of a) Bleeding time b) Clotting time.

1x10=10

5x5=25

5x2=10

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT) TIME: 1.30 HRS (RS -2 SCHEME) MAX. MARKS: 50 QP CODE: 5124, PHYSIOLOGY

I. SHORT NOTES - ANSWER ANY FOUR

1.Explain the composition	& fı	unctions	of	Blood.
---------------------------	------	----------	----	--------

- 2. Define Cardiac output. Explain the factors affecting cardiac output.
- 3. Explain Transport of Oxygen in Cardiorespiratory System.
- 4. Explain Steps involved in formation of Urine.
- 5. Contraceptive methods in Males & Females.

II. SHORT ANSWERS

- 6. Stages of Erythropoiesis.
- 7. Types of Neuralgia Cells.
- 8. Types of Muscles.
- 9. Composition of Salivary Juice.
- 10. Types of Hypoxia.
- 11.Conductin tissues of heart.
- 12.Difine GFR.Mention its Normal Value.
- 13. Functions of Posterior Pituitary hormones.
- 14.Spermatogenesis.
- 15. Functions of estrogen

10x3=30

4x5=20

PARAMEDICAL BOARD, BENGALURU			
ANNUAL EXAMINATION, AUGUST 2019			
I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN			
	OPERATION THEATRE TECHNOLOGY		
TIME: 3		1AX. MARKS: 90	
	QP CODE: 2135, SECTION-A, ANATO		
	(ANSWER IN <u>BLUE</u> BOOKLET ONLY)		
I. LONG ES	SAY- ANSWER ANY ONE	$1 \ge 10 = 10$	
1.	Name the parts of Respiratory System with a labelled d	iagram. Describe Right	
	Lung in brief. (5+5)	0 0	
2.	Describe the Heart under the following heading:		
	(a) Chambers, (b) Covering, (c) Blood Supply. (4+2+4)		
II. SHORT	NOTES – ANSWER ANY <u>FIVE</u>	$5 \times 5 = 25$	
3.	Pancreas		
	Trachea		
	Liver		
6.	Thyroid Gland		
7.	Spinal Cord		
8.	Ureter		
III. SHORT	ANSWERS	$5 \ge 2 = 10$	
9.	Name the parts of Stomach		
10.	Name four Cranial Nerves		
	Name two Muscles where Intra Muscular Injection is gi	ven	
12.	Name the Carpal Bones		
13.	Name two Veins of Upper Limb		
	QP CODE: 2136, SECTION-B, PHYSIOLO	DGY	
	(ANSWER IN <u>RED</u> BOOKLET ONLY)		
LIONO	G ESSAY- ANSWER ANY ONE	1x10 =10	
1. LOIN	Define Cardiac cycle. Describe different events of cardia		
2.	Describe the functions of Anti Diuretic Hormone (ADH	.	
	diabetes insipidus. (8+2)	j. maa a note on	
IL SHO	RT NOTES - ANSWER ANY <u>FIVE</u>	5X5=25	
3.	Micturition Reflex		
4.	Regulation of body temperature		
5.	Composition of blood		
6.	Draw a neat labeled diagram of Nephron		
7.	Composition and functions of Bile juice		
8.	Contraceptive methods in females		
III. SH	IORT ANSWERS	5x2=10	
9.	What is peristalsis?		
10.	Mention two functions of tongue		
11.	Mention any two functions of muscles		
12.	Name different blood group systems		
13.	Give normal values of A) Pulse B) Blood Pressure		

	PARAMEDICAL BOARD, BENGA ANNUAL EXAMINATION, AUGUS			
	II YEAR DIPLOMA IN			
		TECHNOLOCY		
	OPERATION THEATRE & ANAESTHESIA	TECHNOLOGY		
	(DOT&AT)			
TIM	IE: 3 HRS (RS -2 SCHEME)	MAX. MARKS: 100		
QP CODE: 5136, SECTION-A, ANATOMY (ANSWER IN <u>BLUE</u> BOOKLET ONLY)				
I. SH	ORT NOTES - ANSWER ANY FOUR.	$4 \times 5 = 20$		
1.	Describe the Urinary bladder			
2.	Describe the Humerus bone			
3.	Describe the Cerebrum			
4.	Describe the Thyroid gland			
5.	Describe the Mammary gland			
II. SH	IORT ANSWERS	10 X 3 = 30		
6.	Name the nerves of Upper Limb			
7.	Name the contents of Femoral sheath			
8.	Name the contents of Popliteal fossa			
9.	Name the bones and Cartilages of the nose			
10.	Name the six Cranial nerves			
11.	Name the coverings of the Brain			
12.	Name the parts of Pancreas			
13.	Name the parts of Respiratory system			
14.	Name the arteries of Lower Limb			
15.	Name the muscles of Larynx			
10.	QP CODE: 5137, SECTION-B, PHYSIOI	LOGY		
	(ANSWER IN <u>RED</u> BOOKLET ONLY)			
L SF	IORT NOTES - ANSWER ANY FOUR	4X5=20		
1.	Define GFR. What are the factors maintaining GFR			
2.	Heart Sounds			
3.	Anemia			
<i>4</i> .	Transport of Carbon dioxide in blood			
5.	Pregnancy tests			
	ORT ANSWERS	10X3=30		
6.	List differences between Skeletal & Cardiac Muscle			
0. 7.	CSF formation			
8.	Functions of testosterone			
9.	List 3 Indications for Blood transfusion			
). 10.	Functions of Skin			
10. 11.	Functions of Bile Juice			
	Define Receptor. List types of Receptors			
	Normal values of BP in Different age groups			
	List types of Artificial Respiration Functions of Cell Membrane			
10.				

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA/II YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY (DMRT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90 QP CODE: 2145, HOSPITAL STATISTICS & BIOSTATISTICS I. LONG ESSAY - ANSWER ANY <u>THREE</u> 3X10=30

- 1) Define Data, Variable, Population and Sample with Example
- 2) Define Classification of Data and Explain Different Types of classification.
- 3) Explain Different Measures of Dispersion
- 4) Explain Different Measures of Mortality

II. WRITE IN BRIEF ON ANY TEN

- 5) Characteristics of a Good Table
- 6) Mean(AM) With its merits and demerits
- 7) Median with its merits and demerits
- 8) Crude birth rate and Age Specific Fertility Rate
- 9) Advantages of graphical presentation of data
- 10)Sample Registration System
- 11)Histogram and frequency polygon
- 12)Normal Distribution Curve
- 13)Simple Random Sampling
- 14)Stratified Random Sampling
- 15)Biostatistics and its uses

III. WRITE IN BRIEF ON ANY FIVE

16)Mode17)Probability18)Pie Diagram19)Population20)Bed turn over21)Prevalence

10X5 = 50

5X2=10

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL RECORDS TECHNOLOGY (DMRT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100 QP CODE: 5146, HOSPITAL STATISTICS & BIOSTATISTICS I. SHORT NOTES -ANSWER ANY <u>EIGHT</u> 8 X 5 = 40

- 1. Define Biostatistics? Write down its uses of Medical Sciences
- 2. Infant mortality rate and maternal mortality rate
- 3. Explain about Bar diagram and Pie Chart
- 4. Explain Range, Mean Deviation and Standard deviation
- 5. What are the outpatient statistical data collect in hospital
- 6. What is sampling? describe various types of sampling in brief
- 7. Calculate Mean, Median for the following observations 18, 30, 15, 14, 17, 25, 24, 27, 29 and 28.
- 8. Define Bed occupancy rate. In a month of June 4000 inpatients days were served in a hospital with 450 beds. Calculate bed occupancy rate.
- 9. Notification of diseases
- 10. Characteristics of standard normal curve

II. SHORT ANSWERS

0 X 3 = 60

- 11. Characteristics of good table
- 12. Average length of stay
- 13. Case fatality rate
- 14. Bed turnover ratio
- 15. Probability
- 16. Anaesthesia death rate
- 17. Define Admission and Discharge.
- 18. Caesarean section rate
- 19. Histogram
- 20. Variable and its types
- 21. Autopsy rate
- 22. Define Sex ratio and write its formula
- 23. Define quantitative data with example
- 24. Frequency distribution
- 25. Net reproduction rate
- 26. Chi square test
- 27. Prevalence
- 28. Bed Complement and Daily ward census
- 29. Scatter diagram
- 30. Inpatient service day

PA	ARAMEDICAL BOARD, BE	ENGALURU
AN	NUAL EXAMINATION, A	UGUST 2019
I YEAR DI	PLOMA /III YEAR CERTIE	FICATE COURSE IN
	DIALYSIS TECHNOLOG	
TIME: 3 HRS		MAX. MARKS: 90
OP CO	DE: 2155, SECTION-A, A	
~	(ANSWER IN <u>BLUE</u> BOOKLET O	
I. LONG ESSAY- ANSW	ER ANY <u>ONE</u>	$1 \ge 10 = 10$
1. Describe the Heart up	nder the following heading:	
(a) Chambers, (b) Co	vering, (c) Blood Supply. (4+2	2+4)
	e Brain. Describe Cerebrum in	-
II. SHORT NOTES -ANS	SWER ANY <u>FIVE</u>	$5 \times 5 = 25$
3. Urinary Bladder		
4. Stomach		
5. Spleen		
6. Thyroid Gland		
7. Histology of Hyaline	e Cartilage	
8. Femoral Artery		
III. SHORT ANSWERS		$5 \times 2 = 10$
9. Name any two Musc	eles of Abdomen	
10. Name the Bones of F	ore Arm	
11. Name two Veins of U	Jpper Limb	
12. Name the parts of U	5 5	
13. Name any two Lymp		
QP CC	DDE: 2156, SECTION-B, PHY	
	(ANSWER IN <u>RED</u> BOOKLET O	
I. LONG ESSAY- ANSI		1 x 10 =10
	Filtration Rate (GFR). Factors	affecting GFR.
Measurement of G		
-	unction of Blood. (3+7)	
II. SHORT NOTES -AN	NSWER ANY <u>FOUR</u>	5 x 5 =25
3. Blood Pressure		
4. Heart sounds	D.	
5. ECG waves with th	ne Diagram	
6. Blood Groups		
	Sedimentation Rate (ESR). Fac	ctors affecting ESR
8. Non-Excretory fun	5	F D 10
III. SHORT ANSWER		5 x 2 =10
	Heart rate 2) Respiratory rate	
10. List hormones of A	interior pituitary	
11. Anemia		
12. Types of Transport	across cell memorane.	
13. Insulin	at at at at at	

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN** DIALYSIS TECHNOLOGY (DDT) TIME: 3 HRS **MAX. MARKS: 100** (RS -2 SCHEME) **QP CODE: 5155, SECTION-A, ANATOMY** (ANSWER IN BLUE BOOKLET ONLY) **I. SHORT NOTES - ANSWER ANY FOUR** $4 \times 5 = 20$ 1. Name the parts of urinary system, describe kidney in detail 2. Classify the nervous system, describe nerve supply and blood supply to the urinary bladder briefly 3. Describe heart in detail 4. Name the parts of respiratory system, describe trachea briefly 5. Name the endocrine glands, describe suprarenal gland **II. SHORT ANSWERS** $10 \ge 3 = 30$ 6. Mention the joints of the lower limb 7. Mention any six bones of the skull 8. Name the parts of brain stem 9. Mention the parts of uterus 10. Mention the different types of cartilage 11. Name the muscles of anterior abdominal wall 12. Mention the parts of peritoneum 13. Mention the lymphoid organs 14. Mention the arteries of upper limb 15. Mention the different types of muscle **OP CODE: 5156, SECTION-B, PHYSIOLOGY** (ANSWER IN RED BOOKLET ONLY) SHORT NOTES -ANSWER ANY FOUR I. 4 X 5 = 201. Define Secondary active transport. Explain with an example 2. Explain the stages of erythropoiesis 3. Explain counter-current mechanism in the kidneys 4. Draw neat labelled diagram of conducting system of the heart. 5. Write the functions of cortisol hormone SHORT ANSWERS $10 \times 3 = 30$ II. 6. Write the source and function of Erythropoietin 7. Name the types of cell junctions 8. What are the functions of Platelets? 9. Write the steps of urine formation 10. Write the normal values of Heart rate and Blood pressure 11. Functions of Parathormone 12. Functions of Haemoglobin 13. Name the types of Dialysis 14. State Landsteiner's law of blood groups 15. Name THREE anticoagulants ******

PARAMEDICAL BOARD, BENGALURU			
	ANNUAL EXAMINAT	ION, AUGUS	ST 2019
	I YEAR DIPLOMA /III YEAR (CERTIFICAT	E COURSE IN
	DENTAL HYG	ENE (DDH)	
TIME:	1.30HRS (RS -1 SCHE	ME)	MAX. MARKS: 45
QP CODE: 2185, SECTION-A, BIOCHEMISTRY I. (ANSWER IN <u>BLUE</u> BOOKLET ONLY)			
II.	LONG ESSAY - ANSWER ANY ONI		1x10=10
III.	 What are Carbohydrates? Classify the importance of Carbohydrates in orange of Carbohydrat	l hygiene. bout the Funct	•
	4. Effect of Sucrose on oral health.		
	5. Importance of Mastication.		
	6. Malnutrition on oral health.		
	QP CODE: 2186, SECTION (ANSWER IN <u>RED</u> BOC	-	θGY
I.	WRITE SHORT NOTES		4X5=20

- 1. Parallel technique
- 2. Bitewing radiograph.
- 3. Ortho pantamography
- 4. Processing solutions.
- 5. Occlusal radiographs.

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN DENTAL HYGIENE (DDH) TIME: 1.30HRS (RS -2 SCHEME) MAX. MARKS: 50 QP CODE: 5185, SECTION-A, BIOCHEMISTRY (ANSWER IN <u>BLUE</u> BOOKLET ONLY)

A) SHORT NOTES

1) Discuss the synthesis of urea.

2) Definition, classification and properties of lipids.

B) SHORT ANSWERS;

- 1) Deficiency of Vitamin D
- 2) Polysaccharides.
- 3) Factors effecting enzyme activity.

4) Creatinine.

5) LDL cholesterol.

QP CODE: 5186, SECTION-B, RADIOLOGY (ANSWER IN <u>RED</u> BOOKLET ONLY)

I. LONG ESSAY

- 1) Write in detail processing and mounting of dental radiographs
- 2) Explain radiation hazards. Add a note on protection against radiation.

II.WRITE SHORT NOTES

- 3) Paralleling Technique
- 4) Intraoral periapical X-ray
- 5) Structure of an atom.
- 6) Orthopantomogram.
- 7) Bite wing radiograph.

2X5=10

5X3=15

2x5 = 10

5x3=15

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100 QP CODE: 4195, BIOMECHANICS

I.SHORT NOTES - ANSWER ANY EIGHT

8X5= 40

- 1. Explain composition and resolution of forces.
- 2. Explain concurrent forces, coplanar forces, and parallel forces.
- 3. Define gravity. Explain LOG & COG with diagram.
- 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

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 65 QP CODE: 3203

DISABILITY EVALUATION & COMMUNITY PHYSIOTHERAPY

I. LONG ESSAY- ANSWER ANY <u>FOUR</u>

- 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>

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

4 X10 =40

5 X5 =25

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL RECORD TECHNOLOGY (DMRT) TIME: 1 HR (RS -1 SCHEME) MAX. MARKS: 20

QP CODE: 3144, MEDICAL & SURGICAL CODING

I. ANSWER ANY THREE QUESTIONS

1. Explain the types of coding books, and names of ICD coding books

- 2. How many different types of category codes we can observe in ICD coding book?
- 3. Define the purposes of coding? What are the uses of coding afterwards?
- 4. What is Medical, Surgical coding according to ICD 10

II.Expand the following Abbreviations.

 $1 \times 5 = 5$

3 X 5 = 15

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

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL RECORD TECHNOLOGY (DMRT) TIME: 1 HR (RS -2 SCHEME) MAX. MARKS: 30

QP CODE: 6146, MEDICAL & SURGICAL CODING

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

 $10 \ge 3 = 30$

- 1. Brief the any five sources of morbidity data.
- 2. Brief the uses of mortality data.
- 3. Expand the abbreviation of ICD, ISCD AND RHP.
- 4. Define Cause of Death.
- 5. Why do we need to code?
- 6. What do you mean by coding?
- 7. Brief principles of classification of ICD.
- 8. Define parentheses.
- 9. Define Eponyms.
- 10. What are the uses of coding?
- 11. Define Synopsis.
- 12. Define Homonyms.

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5197, SECTION-A, ALLIED THERAPEUTICS

I. SHORT NOTES - ANSWER ANY FOUR

- 1. Enumerate the factors which help in assessment of Cardio-respiratory functions.
- 2. Write about common sports injuries and briefly explain any of them.
- 3. What are the adverse effects of an unhealthy diet-explain with examples.
- 4. Define healthy diet. Discuss the factors contributing in making a healthy diet plan
- 5. Define Yogasanas. Mention the types and advantages of asanas.

II. SHORT ANSWERS

- 6. Homeopathy.
- 7. Effects of Yoga in human body.
- 8. Acupuncture.
- 9. Adverse effects of junk foods.
- 10. Effects of inactivity in human health.
- 11. Brief note on any two injuries those are common in sports.
- 12. Dos and Dont's while doing physical exercises.
- 13. Naturopathy.
- 14. Cardio-respiratory parameters in physical exercise.
- 15. Obesity.

QP CODE: 5198, SECTION-B, PHARMACOLOGY

I. SHORT ESSAY - ANSWER ANY <u>FOUR</u>

- 1. Mention 3 advantages and 3 disadvantages of IV route of Drug Administration.
- 2. Mention 4 uses and 4 adverse effects of Corticosteroids.
- 3. Write 5 drugs derived from Plant Sources.
- 4. Name the Hormones secreted by Pituitary Gland.
- 5. Classify Sedatives and Hypnotics.

II. SHORT ANSWERS

- 6. Name 3 Local Anesthetic agent's and its uses.
- 7. Name 3 Fat Soluble Vitamins.
- 8. Mention the 3 uses of Aspirin.
- 9. Name the agents used for Fumigation.
- 10. Name the antidote for.
 - a) Organo Phosphorus Poisoning.
 - b) Paracetamol Poisoning.
 - c) Iron Poisoning.
- 11. Name the Hormones of Thyroid.
- 12. Name 3 Oral Hypoglycemic agents.
- 13. Name 3 Drugs used in Migraine.
- 14. Name 2 Immuno Suppressants.
- 15. BCG Vaccine.

4 x 5=20

10 x3 = 30

4 X 5 = 20

10 X 3 = 30

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 COMMON FOR ALL FIRST YEAR CERTIFICATE COURSES (RS -1 SCHEME) MAX. MARKS: 45 **TIME: 1.30 HRS**

QP CODE: 1104, ENGLISH

Ι	Write an essay on any ONE of the following1. Population explosion2. Air Pollution	15X1=15
Π	Answer any ONE3. Write a letter to your Principal requesting for one wee4. Write a letter to your Father asking for the college fee	
III	Write the opposite gender of 5. Women 6. Horse 7. Duke 8. Servant 9. Mor	5x1=5 nk
IV	Write the opposite of the following10. Beautiful11. Construction12.Bold13.Dee	5x1=5 ep 14. Humble
V	Make sentences using the following 15. As well as 16. Across 17. Beautiful 18. On Time 19. Between	5x1=5
VI	Fill in the Blanks20. This lid isthat box21. Monkey isthe tree22. She iscute Girl23. It isaeroplane24. Varun is tallerDevan	5x1=5
	* * * * * *	

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019** FIRST YEAR DIPLOMA COURSES (RS -2 SCHEME) **MAX. MARKS: 100**

TIME: 3 HRS

QP CODE: 4107, ENGLISH

I. Wr	ite an essay on any ONE of the following in about 300 words	15X1=15	
1.	Hospital Waste Management		
2.	Blood donation		
		11/10-10	
II	Answer any one (Letter Writing)	1X10=10	
3.	Write a letter to your Principal requesting him/her to grant two days leave as		
1	you are going to attend a function at your native place. Write a letter to your friend telling him/her about your paramedical course.		
	Use the following idioms/phrases in sentence of your own.	5x1=5	
0.	a) Keep an eye on b) Look into c) Back up d) Go through		
	e) Put up with		
6.	Change the following into indirect speech	5x1=5	
	a) Nisha said 'I am returning to Nagpur next Friday'.		
	b) "GetTapan to class V" the head master said to them		
	c) The birds are flying away, 'Anitha says'		
	d) Anju said to Anu 'Which dress did you send to the Laundry?'		
	e) I said to the man, 'you can keep your books in the room'		
7.	Change the voice of the following	5x1=5	
	a) Rakesh is practicing Yoga		
	b) Sushma was learning typing		
	c) I have warned you this timed) Bring a chair		
	e) Send him in		
8	Write the opposite of the following	5x1=5	
0.	a) Common b) Formal c) New d) Top e) E		
9.	Fill in the blanks with suitable preposition	5x1=5	
	a) She lives		
	b) He goes to work train		
	c) She drew the picturea crayon		
	d) He swam the river		
10	e) He walked the street		
10). Fill in the blanks with articles	5x1=5	
	a) Did you bringumbrella? b) Are you looking for shampoo?		
	c) I checked mail box again		
	d) Can I have spoon please?		
	e) I was born in poor family		
11	. Give the synonyms of the following	5x1=5	
	a) Earn b) Dread c) Smell d) Riot e) Decid	le	
_			

12. Read the following passage carefully and answer the questions that follow:10

(1) There was once a king of Scotland whose name was Robert Bruce. He needed to be both brave and wise, for the times in which he lived were wild and rude. The King of England was at war with him, and led a great army into Scotland to drive him out of the land. Battle after battle had been fought. Six times had Bruce led his brave little army against foes and six times had his men beaten and driven into fight. At last his army was scattered and he was forced to hide himself in the woods and in lonely places among the mountains.

Contd...... 2

- (2) One rainy day, Bruce lay on the ground under a rude shed, listening to the patter of the droops on the roof above him. He was tired and sick at heart and ready to give up all hope. It seemed to him that there was no use for him to try to do anything more.
- (3) As he laid thinking, he saw a spider over his head, making ready to weave her web. He watched her as she toiled slowly and with great care. Six times she tried to throw her frail thread from one beam to another and six times it fell short "poor thing" said Bruce. 'You too, know what it is to fail'.
- (4) But the spider did not lose hope with the sixth failure. With still more care, she made ready to try for the seventh time. Bruce almost forgot his own troubles as he watched her swing herself out upon the slender line. Would she fail again? No!the thread was carried safely to the beam and fastened there.
- (5) I too will try a seventh time! cried Bruce.
- (6) He arose and called his men together. He told them of his plans and sent out with messages of cheer to his disheartened people. Soon there was an army of brave Scotchmen around him. Another battle was fought and king of England was glad to go back into his own country.

A) On the basis of our reading of the above passage, answer the following questions;

- a) Who was the king of Scotland? (1)
- b) How was the time in which the king lived? (1)
- c) Who was Robert Bruce fighting against? (1)
- d) How many times did Bruce fight against his foes? (1)
- e) What did Bruce see while he was lying? (2)
- f) What made Bruce try a seventh time? (2)

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B) Find the words from the passage which mean the same as the following:
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g) Battle (para 1)
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- h) Little (para 1)
- 13. Write the correct medical term.

10x1=10

1x5=5

(1x2=2)

- A)Uro B) Cyto C) Histo D) Epidemo E) Physio F) Pedia G) Cardio H) Embryo I) Haemo J) Radi
- 14. E mail Writing

Write an email to your friend about your joining into a new college

15. Fill in the blanks with appropriate articles and prepositions given in the bracket (a, the, by, for, an) 1x5=5
 In organizing small scale industry is that of ownership, represented.......

 the right of individual or a group of individuals to acquire legal title

the right of.....individual or a group of individuals to acquire legal title to asseststhe purpose of controlling an industrial operation and enjoying gain or profits flowing from such activities.

16. Re-arrange the jumbled segments to form a sentence.1x6=6

- a. many/difficulties/The authorities/the criminal/faced/in dealing with
- b. of all/are the /centuries/books/great memory
- c. the merchant/Gonzalo/in the duel/injured/severely
- d. food chain/themselves/the pests/are part of
- e. work hard to pass/the examination / shall / we
- f. earth / grow / trees / protect / to / our

17. Complete the following dialogue (situation based conversation) 4x1=4

- A) Guide.....(greets and offers to help)
 - B) Mr VasuSiddaganga Mutt (enquires)
 - C) Guide: Sure......Rs 50 (replies)
 - D) Mr Vasu..... (agrees)
 - E) Okay Sir, this way please

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS -1 SCHEME) MAX. MARKS: 90

QP CODE: 2105, MICROBIOLOGY

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

- 1. Define sterilization. Describe in detail about autoclave.
- 2. Mention the different types of microscopes. Write in detail about handling and care of light microscope.
- 3. Describe the morphology of bacterial cell with neat diagram.

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

- 4. Catalase test.
- 5. Bacterial flagella
- 6. Louis Pasteur.
- 7. Antigen.
- 8. Steps of hand wash
- 9. Immunity.
- 10. Pasteurization.
- 11. Preparation of blood agar media.
- 12. IgA.
- 13. Describe the structure of immunoglobulin.
- 14. Hot air oven.
- 15. Describe anaerobic culture methods.

III. SHORT ANSWERS

- 16. Name two urease positive bacteria.
- 17. Name two transport media.
- 18. Name two DNA viruses.
- 19. Name two stains.
- 20. Name two gram positive bacilli.
- 21. Name two oxidase positive bacteria
- 22. Name two spore forming bacteria.
- 23. Name two capsulated bacteria.
- 24. Name two selective media.
- 25. Bacterial growth curve.

10x2 = 20

2x10 = 20

10x 5 = 50

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY (DMLT) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100 QP CODE: 5107, MICROBIOLOGY

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

- 1. Write the contributions of Louis Pasteur
- 2. Bacterial growth curve
- 3. Define and classify sterilization
- 4. Selective Media
- 5. Citrate utilization test Principles and uses
- 6. Innate Immunity
- 7. IgA Antibody
- 8. Type I hypersensitivity reactions
- 9. ZN Stain Procedure & Uses
- 10. Define Agglutination with examples

II. SHORT ANSWERS

- 11. Bacterial Spore [Draw & Label]
- 12. Types of radiation & their uses
- 13. Tests for disinfectants
- 14. Name three gram negative bacilli
- 15. Name three Motile organisms
- 16. Name three Transport Media
- 17. Name three Anaerobic Culture Media
- 18. Name three Gram positive bacteria
- 19. Composition of Albert Stain
- 20. Gaseous Sterilization
- 21. Give three differences between gram negative and gram positive bacterial cell wall
- 22. Name three hospital acquired infections
- 23. Name three antibodies
- 24. Name three Zoonotic Infections
- 25. Negative Staining
- 26. How do you fix the smear and what are the advantages of Fixation?
- 27. List two differential Stains and Organisms for which are used.
- 28. Define immunity and classify Immunity
- 29. Name any three antigen antibody reactions
- 30. Draw a neat and labelled diagram of IgM

 $20 \times 3 = 60$

PARAMEDICAL BOARD, BENGALURU **ANNUAL EXAMINATION, AUGUST 2019** I YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN **HEALTH INSPECTOR (DHI)**

TIME: 3 HRS

(RS -1 SCHEME)

MAX. MARKS: 90

OP CODE: 2113, COMMUNITY MEDICINE, PAPER-III

I. LONG ESSAY- ANSWER ANY TWO

- 1) Write with a neat diagram-life cycle of housefly. Add a note on transmission of diseases caused by it.
- 2) Define Epidemic. Write in detail about an investigation of an epidemic.
- 3) Mention the different levels of prevention. Discuss in detail Primary Prevention.

SHORT ANSWERS -ANSWER ANY TEN II. 10x5=50

- 4) Types of disinfection
- 5) Epidemiological triad
- 6) Define Prevalence. Write its uses.
- 7) Health advice to travellers.
- 8) Swimming pool sanitation.
- 9) Name five vector borne diseases with names of vector
- 10) National immunization schedule.
- 11) Iceberg of Disease.
- 12) Rehabilitation.
- 13) Health Promotion.
- 14) Discuss the statistical averages
- 15) Contagious diseases

SHORT ANSWERS III.

- 16) Bar chart.
- 17) Vaccine vial monitor (VVM).
- 18) Diseases caused by mosquito.
- 19) MMR vaccine.
- 20) Mention 3 diseases caused by rodents.
- 21) Median.
- 22) Census
- 23) Mention ill effects of noise pollution
- 24) Epidemiological triad
- 25) Name any two insecticides

10x2=20

2x10=20

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN HEALTH INSPECTOR (DHI) TIME: 3 HRS (RS -2 SCHEME) MAX. MARKS: 100

QP CODE: 5115,COMMUNITY MEDICINE, PAPER-III

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

- 1. Criteria for screening test
- 2. Name 5 nutritional programs in India
- 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

- 11. Define health
- 12. Incubation period
- 13. Prevalence
- 14. What is active immunization
- 15. Uses of screening
- 16. Define sensitivity
- 17. Name three diseases which are commonly screened
- 18. Food fortification
- 19. Vitamin A rich food
- 20. Cause of Maternal mortality rate in India
- 21. Name three sources of health information
- 22. Pentavalent vaccine
- 23. Weaning
- 24. Exclusive breast feeding
- 25. Three nutrition problems
- 26. Parboiling of rice
- 27. Classify vitamins
- 28. Mean
- 29. Three diseases prevented by vaccines
- 30. BCG vaccine Dosage and Route of administration

 $20 \times 3 = 60$

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY (DMXT) TIME: 1.30 HRS (RS -1 SCHEME) MAX. MARKS: 45 QP:2124, PATHOLOGY

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

- 1. What is neoplasia. Mention its types. Write the characters of benign and malignant with labelled diagram. (2+2+4+2)
- 2. Define Pneumonia. Mention the different stages. Add a note on morphology with labelled diagram. (2+2+4+2)

II. SHORT ESSAY-ANSWER ANY FIVE

- 3. Marasmus.
- 4. Define healing. Write the stages of fracture healing.
- 5. Mention the difference between necrosis and gangrene.
- 6. Define osteomylitis. Mention its types with examples
- 7. Rheumatic heart disease.
- 8. Define goitre. Mention its causes and types.
- 9. Write a note on carcinoma breast.

III. SHORT ANSWERS

- 10. Vitamin D deficiency.
- 11. Mention the signs of inflammation.
- 12. Define hypertrophy. Give two examples.
- 13. Name any two congenital anomalies of gastrointestinal tract.
- 14. Morphology of osteosarcoma.

1X10=10

5X5=25

5X2=10

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 II YEAR DIPLOMA IN MEDICAL IMAGING TECHNOLOGY (DMIT) TIME: 1.30 HRS (RS -2 SCHEME) MAX. MARKS: 50

QP: 5125, PATHOLOGY

I. SHORT NOTES - ANSWER ANY FOUR

- 1. Define neoplasia. Write differences between benign and malignant tumors.
- 2. Write about causes, signs and symptoms of vitamin D deficiency.
- 3. Define osteomyelitis. Mention different types of osteomyelitis with a note on tuberculosis of spine.
- 4. Define pneumonia. Describe different types of pneumonia.
- 5. Define acute inflammation. Write briefly about fracture healing.

II. SHORT ANSWERS

- 1. Hydronephrosis of kidney.
- 2. Gall stones.
- 3. Brief note on primary complex of tuberculosis of lung.
- 4. Vitamin C deficiency.
- 5. Chronic cholecystitis.
- 6. Goitre -causes and types.
- 7. Rheumatoid arthritis.
- 8. Fibroid uterus.
- 9. Mention 4 tumors of bone.
- 10. Pyloric stenosis.

4X5=20

10X3=30

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 I YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) TIME: 3 HRS (RS 2 SCHEME) MAX. MARKS: 100 QP: 4197, SECTION-A, PSYCHOLOGY (ANSWER IN BLUE BOOKLET)

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 (ANSWER IN <u>RED</u> BOOKLET)

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.

4X5= 20

4X5= 20

10X3 = 30

10X3 = 30

PARAMEDICAL BOARD, BENGALURU ANNUAL EXAMINATION, AUGUST 2019 III YEAR DIPLOMA IN PHYSIOTHERAPY (DPT) TIME: 3 HRS (RS 1 SCHEME) MAX. MARKS: 90 QP: 3204, P.T. IN MEDICAL CONDITIONS

I. LONG ESSAY- ANSWER ANY <u>FIVE</u>

- 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

5X12=60

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