

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN MEDICAL LABORATORY TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 3101

BIOCHEMISTRY

I Long Essay — answer any TWO

2x10=20

1. What is automation? Classify autoanalyzers. Write the differences between random access and batch analysers. Add a note on reagent kits.
2. Explain Glucose Tolerance Test (GTT) in detail. Write the normal values of blood sugar levels.
3. Write in detail about digestion and absorption of carbohydrates .

II Write short notes on any TEN

10x5 = 50

4. Define Glycogenesis, Gluconeogenesis. Name key enzymes of glycogenesis.
5. Internal quality control
6. Formation of ketone bodies.
7. Liver Function Tests
8. Constituents of gastric juice
9. Chromatography — principle, types and applications.
10. Tests for Inorganic constituents of normal urine.
11. Radioimmunoassay (RIA)
12. Importance of isoenzymes.
13. ISE — Definition, principle and applications.
14. Regulation of blood glucose.
15. Urea cycle.

III Write short answers

10 x 2 = 20

16. Specific Urease test
17. Name Ketone bodies
18. Two uses of ELISA
19. Significance of Statistics in Biochemistry
20. Applications of electrophoresis
21. Name Cardiac enzymes.
22. Enzymes in Saliva.
23. Hay's test.
24. Name bile pigments
25. Write the normal range of serum electrolytes.

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

**II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
HEALTH INSPECTOR**

TIME 3 HRS.

MAX. MARKS: 90.

**QP CODE — 3111
PAPER I**

I. Long Essay - Answer any TWO

2 X 10 = 20

- 1). Describe epidemiology of tuberculosis. Add a note on its control
- 2). Write in detail about ICDS (Integrated child development service) programme.
- 3). Define Primary Health Care. Discuss Principles of primary Health care..

II. Write short notes on any TEN

10 X 5 = 50

- 4) Vitamin A prophylaxis
- 5) Pulse polio Immunization
- 6) Danger signals of Cancer
- 7) Epidemiology of Dengue fever
- 8) What are the harmful effects of tobacco on health? Mention two measures to control and prevent tobacco use in the population.
- 9) Define Blindness. Write the causes of blindness
- 10) Personal protective measures for mosquito bite
- 11) Risk factors of non communicable diseases
- 12) First aid in dog bite
- 13) Domestic accidents
- 14) Hazards of obesity
- 15) Janani Suraksha Yojana

III. Write short answers

10 X 2 = 20

- 16) Name four zoonotic diseases
- 17) Helmet
- 18) Integrated Counselling and Testing Centre (ICTC)
- 19) Organisms causing Diarrhea
- 20) Disease transmitted by faeco-oral route
- 21) Body mass index
- 22) Danger signs of cancer
- 23) Pentavalent vaccine
- 24) Self care in Diabetes
- 25) Measles vaccine

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 3121

RADIOGRAPHY INCLUDING RADIOLOGY PHYSICS (N.S) R-1

I LONG ESSAY- ANSWER ANY TWO

2X10=20

- 1) Explain about grids and associated artifacts?
- 2) What are primary and secondary x-rays? Explain devices to reduce secondary and scattered radiation?
- 3) Describe about fluoroscopy and image intensifiers?

II. WRITE SHORT NOTES ON ANY TEN

10X5=50

- 4) Radiation protection.
- 5) Uses of cones.
- 6) Ultrasound.
- 7) X-ray film fixing agents.
- 8) Photostimulable phosphor.
- 9) Radioisotope.
- 10) X-ray developers.
- 11) Photographic solution.
- 12) Alpha and beta decay.
- 13) Computed radiography and digital radiography.
- 14) Exposure factors.
- 15) X-ray films.

III. WRITE SHORT ANSWERS

10x2=20

- 16) X-ray hangers.
- 17) Radioactivity.
- 18) Compton Effect.
- 19) Milliampere-seconds.
- 20) Cathode.
- 21) Types of film base.
- 22) Capacitor.
- 23) Scattered radiation.
- 24) Methods of drying films.
- 25) Bucky.

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

**II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
OPERATION THEATER TECHNOLOGY**

TIME 3 HRS.

MAX. MARKS: 90.

**QP CODE — 3131
ANAESTHESIA & ALLIED TOPICS**

I. ANSWER ANY TWO

2X10=20

1. What are neuromuscular blocking agents? Classify. Write briefly about Succinyl Choline (2+2+6)
2. What are the hazards in Operation theatre? Precautions to be taken in a case of HIV patient posted for surgery (5+5)
3. Describe Spinal anaesthesia. Write about Complications of Spinal anaesthesia. (6+4)

II. WRITE SHORT NOTES ON ANY TEN

10X5=50

4. Adrenaline
5. Capnography and its uses
6. Basic Life Support
7. Bain circuit
8. Write about nebulisation? What are the agents used? (2+3)
9. Clonidine
10. Complications of hypothermia? How to prevent inside OT (2+3)
11. Ringer lactate
12. Ketamine
13. Isoflurane
14. Premedication
15. Intra operative hypotension

III. WRITE SHORT ANSWERS

10X2=20

16. Laryngeal mask airway
17. Sedation
18. Write any 3 blood components
19. Oxygen cylinder
20. Propofol
21. Neostigmine
22. IV lignocaine
23. Informed written consent
24. Tuohy needle
25. Waste management

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 3141 MEDICAL TERMINOLOGY

I. Answer the following

5x3=15

1. Purpose of learning Medical terminology
2. Five anatomical divisions of abdomen
3. Differentiate between Prefix, Suffix and roots; Give one example for each.

II. Give the Meaning for the following Prefixes

5x1=5

- 1) Ante 2) cata 3) dia 4) Meso 5) Meta

III. Give the Meaning for the following Suffixes

5x1=5

- 1) Malacia 2) Rhexis 3) Scopy 4) Pexy 5) Spasm

IV. Give the Meaning for the following Roots

5x1=5

- 1)Cheir 2) Glyco 3) Angio 4)Cheil 5) Myel

V. Write the Phobias for the following

10x1=10

- 1) Drink 2) Bacteria 3) Dogs 4) Red 5) Fish
- 6) Insect bite 7) Heat 8) Death 9) drugs 10) girls

VI. Differentiate the following terms

5x2=10

- 1) Addiction & Adduction
- 2) Aural & Oral
- 3) Chronic & Chromic
- 4) Facial & Fasciae
- 5) Menorrhoea & Metrorrhagia

VII. Match the following

5x1=5

- | | |
|------------|--------------------|
| 1. Glaukos | Black & blue |
| 2. polios | Black |
| 3. Melas | Golden |
| 4. Aureus | Grey or blue green |
| 5. Lividus | Grey
yellow |

VIII. Give the Medical Terms for the following

10x1=10

1. Abnormal joining of surfaces to each other
2. Before the onset of labor
3. A Protein that depends on the body against the toxin
4. Inflammation of the endometrium
5. Membranes of placenta.
6. Removal of an ovary
7. Hernia of the stomach
8. Abnormal dilatation of the blood vessels
9. Pain in the ear
10. Destruction of muscular tissue

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ANNUAL EXAMINATION AUGUST - 2018

Q P CODE 3141 MEDICAL TERMINOLOGY

VIII. Define the following

10x1=10

1. Cystocele
2. Angiogenesis
3. Carcinoma
4. Cystoscopy
5. Orchidectomy
6. Myalgia
7. Myolysis
8. Cholangitis
9. Hepatitis
10. Glycosuria

IX. Expand the following abbreviations

10x1=10

- | | |
|---------|----------|
| 1. EEG | 6. BBB |
| 2. SSG | 7. ELISA |
| 3. BCG | 8. ALD |
| 4. ECCE | 9. HIV |
| 5. LMLE | 10. HBV |

X. Give the meaning for the following Numerical

5x1=5

1. Unus
2. Mega
3. Micro
4. Quinte
5. Bini

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

DIALYSIS TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 3151

FUNDEMANNTALS OF HEMODIALYSIS AND COMPONENTS

I) LONG ESSAYS (ANY TWO)

2X10=20

1. Describe the anticoagulation protocols used in haemodialysis. What are complications of commonly used anticoagulants? What are the ontraindications for anticoagulants? (6+3+2)
2. Elaborate the medical complications in haemodialysis patients. Management of anaemia in haemodialysis (3+4+3).
3. Name the types of dialysers. Describe the 3 principles of haemodialysis. Define and classify flux and efficiency of dialysers.

II) WRITE SHORT NOTES (ANY TEN)

10X5=50

4. Common monitors and alarms in haemodialysis Machine.
5. Care of patient before ,during and after haemodialysis session
6. Write a note on adequacy of haemodialysis.
7. Artificial kidney
8. Define access recirculation and its clinical significance.
9. Steps in water purification for haemodialysis
10. Types of cannulation technique with advantages and disadvantages.
11. Composition of standard haemodialysis solution.
12. Five complications commonly seen during haemodialysis.
13. Draw a diagram of haemodialysis circuit and describe it briefly.
14. What is ultrafiltration?
15. Heparin free dialysis- indications, complications.

III) WRITE SHORT ANSWERS

10X2=20

16. Define urea reduction ratio.
17. Two antihypertensive medications
18. Two clotting test to monitor heparin therapy.
19. What is ultrapure water?
20. Name Two foods to be avoided by dialysis patients
21. Define trans membrane pressure
22. What is ESR? What is the normal range?
23. Name Two diuretics
24. Surface area and priming volume of dialyser.
25. Two types of dialysis.
26. Causes of death in haemodialysis patients.

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 3161

PAPER I

**Your answers should be specific to the questions asked Draw neat
labeled diagrams wherever necessary**

1. LONG ESSAYS (Answer any two)

2 x 10 = 20

1. How to lay trolley for dressing of a patient for post- cataract surgery
2. Define pterygium, what are the instruments required for pterygium surgery
3. How to Maintain OT discipline

2. SHORT ESSAYS.(Answer any ten)

10 x 5 =50

4. Uses of Direct ophthalmoscope
5. How to Sterilize OT instruments
6. Difference between ointments and drops
7. How to prepare a patient for cataract surgery
8. Post operative instructions after cataract surgery
9. What is keratometry and its uses ?
10. Surgical instruments used in Chalazion surgery.
11. How to check spectacle power
12. What is Epilation? Which are the clinical conditions where it is done .
13. How to sterilize Tonometers
14. How to make pads and swab sticks
15. Ocular Bandaging

3. WRITE SHORT ANSWERS.

10 x 2 =20

- 16 Mention two types of Ectropion
- 17 How to cut eyelashes
- 18 Two indications where ocular bandaging is contraindicated
- 19 What is Fumigation
- 20 What is petinoscope
- 21 Two types of Tonometers
- 22 Advantage of Progressive spectacles over Bifocals
- 23 Indications for doing pterygium surgery
- 24 Mention two types of entropion
- 25 Uses of focimeter

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN DENTAL MECHANICS

TIME 1.1/2 HRS.

MAX. MARKS: 45.

**QP CODE — 3171
COMPLETE DENTURES**

I. LONG ESSAY

1 X 10 =10

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

II. WRITE SHORT NOTES

5 X 5 =25

- 2) Compression moulding technique
- 3) Anterior teeth selection principles
- 4) Cast preparation and trimming
- 5) Mean value Articulator
- 6) Flasking and deflasking

III. WRITE SHORT ANSWERS

5 X 2 =10

- 7) Acrylic teeth
- 8) Repair of denture
- 9) Curve of spee
- 10) Dewaxing
- 11) Zero Degree teeth

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE

TIME 1.1/2 HRS.

MAX. MARKS: 45.

QP CODE — 3181

DENTAL HYGIENE & ORAL PROPHYLAXIS

1.LONG ESSAY

1X10=10

1. DEFINE AND CLASSIFY DENTAL PLAQUE. DESCRIBE STAGES OF DENTAL PLAQUE FORMATION

II. WRITE SHORT NOTES

5X5=25

2. PRINCIPLES OF PERIODONTAL INSTRUMENTATION.
3. DENTAL STAINS
4. PRINCIPAL FIBRES OF PERIODONTAL LIGAMENT
5. DIFFERENCE BETWEEN SUPRA AND SUBGINGIVAL CALCULUS
6. CLINICAL FEATURES OF CHRONIC PERIODONTITIS

III. WRITE SHORT ANSWERS

5x 2=10

7. ATTACHED GINGIVA
8. CONTRAINDICATION OF ULTRASONIC SCALERS
9. PERIODONTAL ABSCESS
10. ORAL CANCER
11. FLOURIDE VARNISH

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

II DPT

TIME 3 HRS.

MAX. MARKS: 90.

Pathology

Q P Code 3191

I ANSWER ANY THREE

10 X 3 =30

1. Define and classify fractures. Name the complications of fracture
2. Define inflammation. Mention the types with examples. Name the cardinal signs of inflammation
3. Define and classify edema. Mention the causes and complications of edema
4. Define and classify pneumonia. Mention the causes and complications of pneumonia

II ANSWER ANY 12

12X5=60

5. Hypertrophy
6. Metastasis
7. Myositis
8. Peripheral neuropathy
9. Aortic aneurysm
10. Congenital heart disease
11. Demyelinating diseases
12. Lymphoma
13. Primary tuberculosis
14. Nephritic syndrome
15. Pneumoconiosis
16. Paget's disease of bone
17. Protein energy malnutrition

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS1

CERTIFICATE COURSE

TIME 1.1/2 HRS.

MAX. MARKS: 45.

**QP CODE — 1101
PHYSICS**

I. LONG ESSAY- ANSWER ANY ONE

10X1=10

1. Define Radioactive isotopes. Explain the properties of Alpha, Beta and Gamma rays.
2. State and Explain Ohm's law. Mention the limitations of Ohm's law.

II. WRITE SHORT NOTES ON ANY FIVE

5X5=25

3. Newton's laws of motion
4. Photoelectric effect
5. Gas laws
6. Semiconductors
7. Refraction
8. Thermal radiation
9. Law of refraction

III. WRITE SHORT ANSWER

5X2=10

10. Photoelectric effect
11. Boyle's law
12. Law of conservation of momentum
13. Units of current and resistance
14. Simple harmonic motion

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ANNUAL EXAMINATION AUGUST - 2018

Scheme RS2

SUB: PHYSICS (1ST YEAR DIPLOMA) OF ALL COURSES

TIME: 3Hrs

MAX MARKS: 100

Instructions

- a) Write neat diagrams wherever necessary
- b) Hand writing should be legible

SECTION- A Q P CODE: 4101

I Short Notes, Answer Any FOUR Questions.

4 X 5 = 20

1. What is Thermometer? Add a note on types of thermometer.
2. Centrifugal & centripetal forces.
3. Define CGS & SI system.
4. Work, power, energy & its SI unit.
5. What is electrical resistance? Add a note on Ohm's Law.

II. Short Answers.

10 X 3 = 30

6. Viscosity.
7. Laws of Refraction.
8. Force.
9. Mass & weight.
10. Lens.
11. Kinetic energy.
12. Acceleration.
13. Heat transfer.
14. Speed.
15. Fluid thrust & pressure.

SECTION- B Q P CODE: 4102

I Short Notes, Answer Any FOUR Questions.

4 X 5 = 20

1. Write a neat diagram of atom & explain it's constituents.
2. Laws of reflection.
3. What are conductors and insulators
4. Longitudinal & transverse waves.
5. Capacitors in parallel.

II. Short Answers.

10 X 3 = 30

6. Doping.
7. Atomic number & mass number.
8. Diode.
9. Electron binding energy.
10. Transistors.
11. Ultra sound.
12. Resistance.
13. Uses of Photocell.
14. Current.
15. X-rays.

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ANNUAL EXAMINATION AUGUST - 2018

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I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
MEDICAL LABORATORY TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 2101

SECTION – A ANATOMY (WRITE IN SEPARATE ANSWER BOOK)

I. LONG ESSAY — ANSWER ANY ONE

1 × 10 = 10

1. Name the glands of endocrine system. Describe the supra renal glands
2. Name the Female reproductive system. Describe the uterus

II. Write Short Essay (Any 5)

5 × 5 = 25

3. Stomach
4. Appendix
5. Skin
6. Spinal cord
7. Heart
8. Histology of compact bone
9. Histology of liver

III. Write Short Answers

5 × 2 = 10

10. Name the types of cartilage
11. Name four muscles of lower limb
12. Name the parts of uterine tube
13. Name any 2 tissues of the body
14. Name four parts of microscope

QP CODE – 2102

Section- B, PHYSIOLOGY (Write in separate answer book)

I. Long Essay — Answer any ONE

1 × 10 = 10

- 1) Describe different lung volumes and capacities with neat diagram.
- 2) Name hormones of thyroid gland and describe their functions.

II. Write short notes on any FIVE

5 × 5 = 25

- 3) Plasma proteins
- 4) Contents and functions of middle ear
- 5) Composition and functions of bile
- 6) Cardiac cycle
- 7) Neuro-muscular junction
- 8) Temporary contraceptive methods

III. Write short answers

5 × 2 = 10

- 9) Name two types of Hypoxia
- 10) Name two gastrointestinal hormones
- 11) Give normal platelet count
- 12) Write two functions of kidney
- 13) Name three types of muscles

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ANNUAL EXAMINATION AUGUST - 2018

**I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
MEDICAL X-RAY TECHNOLOGY**

TIME 1.1/2 HRS.

MAX. MARKS: 45.

QP CODE — 2121

GENERAL PHYSICS

I LONG ESSAY- ANSWER ANY ONE

1X10=10

- 1) Describe x-ray production and discuss about types of anodes?
- 2) What is electromagnetic radiation? Describe the structure of matter and electron concept?

II. WRITE SHORT NOTES ON ANY FIVE

5X5=25

- 3) Rectification.
- 4) Tube rating chart.
- 5) Magnetism.
- 6) Law of conservation of energy.
- 7) Ammeter and voltmeter.
- 8) Ohm's law.

III. WRITE SHORT ANSWERS

5x2=10

- 9) Effect of space charge.
- 10) Inverse square law.
- 11) Rotating anode.
- 12) Insulators.
- 13) Effect of filament evaporation.

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ANNUAL EXAMINATION AUGUST - 2018

**I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
OPERATION THEATRE TECHNOLOGY**

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 2131

FUNDAMENTALS OF OT & BASIC CONCEPTS IN SURGERY

I LONG ESSAY- ANSWER ANY TWO

2X10 =20

1. What is Patient Centered Team? How do you prepare Patient for Surgery
2. Describe Sterilization & Disinfection. Explain CSSD
3. Explain about Scrub Nurse & Circulating Nurse & Instrument count.

II WRITE SHORT NOTES ON ANY TEN

10 X5 = 50

4. Draping
5. Exchange areas
6. Red and Yellow waste bins.
7. Wound dressing
8. Team work in OT
9. Suture Materials
10. Harmonic Scalpel
11. Histopathological Examination
12. Formalin Chamber
13. Ryles Tube
14. Electrical Hazards and its Precautions
15. Precaution for Cautery use

III WRITE SHORT ANSWERS

10 X2 = 20

16. Daily OT Cleaning
17. Infection Prevention
18. Radiation Risk
19. Waste Disposal
20. Manifold Room
21. Sterile Team Member
22. Catgut Suture Material
23. Suction Drain
24. Betadine Solution
25. Gauze

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
Medical Records Technology

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 2141
MEDICAL RECORD SCIENCE (MRS)

I. LONG ESSAY — ANSWER ANY TWO. 2 X 10 = 20

1. Discuss the legal aspects of Medical Records
2. Write about the numbering system and its merits and demerits
3. Define Medical Audit Committee and explain the functions
4. What is Estoppels and Promissory Estoppels

II. WRITE SHORT NOTES ON ANY TEN. 10 X 5 = 50

5. Values of Medical Record to the patient, Doctor & Hospital.
6. Define burden of proof? When does the burden lies on the accused
7. Terminal digit filing
8. Cognizable and non-cognizable offence
9. Duties and responsibilities of Medical Record Technician
10. Types of cases using evidence from Medical Records
11. Who is public servant according to IPC
12. How Medical Records used as personal & impersonal document
13. Retention period of Medical Records
14. What are the rights of arrested persons
15. Relevancy of facts
16. Registers maintained in Medical Records Department
17. Medical Record Committee
18. Workman's Compensation Act

III. WRITE SHORT ANSWERS. 10 X 2 = 20

19. Deficiency check
20. Malpractice suits
21. FIR
22. Discharge summary
23. In-patient Register
24. High risk consent
25. Plaintiff
26. Bed occupancy rate
27. Patient will
28. Disease Index Card

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
DIALYSIS TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

QP CODE — 2151

SECTION - A PHARMACOLOGY (WRITE IN SEPARATE ANSWER BOOK)

I. LONG ESSAY — ANSWER ANY ONE

1 x 10 = 10

1. Name SIX Opioid Analgesics. Mention TWO therapeutic uses, TWO adverse effects and TWO contraindications of MORPHINE
2. Name SIX drugs used in the treatment of Tuberculosis. Write the uses and adverse effects of Rifampicin.

II. WRITE SHORT NOTES ON ANY FIVE

5X5=25

3. Calculate the amount of ingredients required to prepare 2 litres of Normal(Isotonic) Saline solution.
4. Glucocorticoids- Therapeutic Uses
5. Insulin.
6. Treatment of Organophosphorous Poisoning.
7. Diazepam.
8. Intravenous route of drug administration.

III. WRITE SHORT ANSWERS

5 X 2 = 10

9. Mention TWO Disinfectants.
10. Name TWO Live attenuated Vaccines.
11. Name TWO Anthelmintic drugs.
12. Mention TWO Liquid dosage forms
13. Name the specific antidote for poisoning(overdose) due to
a. Paracetamol b. Heparin

QP CODE — 2152

SECTION - B THEORY OF DIALYSIS (WRITE IN SEPARATE ANSWER BOOK)

I) LONG ESSAYS-ANSWER ANY ONE

1X10=10

1. Describe the water treatment plant in your dialysis unit. Also add a note on steps in purification of water used for haemodialysis. (5+5)
2. Define Haemodialysis. What are the indications for haemodialysis? Also mention about 4 complications commonly seen during haemodialysis. (3+3+4).

II) SHORT NOTES ON ANY FIVE

5X5=25

3. Lab investigations done in a patient on haemodialysis
4. How do you monitor a patient during haemodialysis?
5. Define intradialytic hypotension. How do you manage and prevent it?
6. Describe the various types of haemodialysis access. Mention two sites for venous catheter placement.
7. AAMI recommendation for standard for purity of water to prepare dialysis solution.
8. Describe reverse osmosis with diagram.

III) WRITE SHORT ANSWERS (ANY FIVE)

5X2=10

9. Normal BP and pulse rate
10. Two sites of AV Fistula
11. Two anticoagulants used during haemodialysis
12. Describe wet needle technique of cannulation.
13. Principle of Wearable artificial kidney
14. Two types of dialysers

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ANNUAL EXAMINATION AUGUST - 2018

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN OPHTHALMIC TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 90.

**QP CODE — 2161
PAPER I**

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

I . Long Essay (Answer any two) 2 X 10 = 20

1. Define Myopia, clinical features and Management,
2. Describe gross Anatomy of layers of cornea with diagram .
3. How to perform keratometry.

II. SHORT ESSAYS . 10 X 5 =50

4. Prescription format of a patient who is 5 yrs old and her distance vision 6/12 improving to 6/6 both eyes with concave lens of -0.5Dsph ?
5. Write in brief about Optics of hypermetropia with Schematic diagram
6. What is Decentring Bifocals
7. What are the types of Progressive lenses
8. Materials used in making contact lenses
9. What are the methods of management of Myopia
10. What are optical Aberrations of ophthalmic glasses
11. Diagram to represent Drainage of lacrimal fluid
12. What is Lantern Test
13. How to check vision in children
14. Describe Snellen's chart
15. What is Aphakia ? Various methods to correct the same

III. WRITE SHORT ANSWERS 10X2=20

- 16 Layers of Cornea
- 17 Two Important systemic investigations before cataract surgery
- 18 What are ways in Aqueous Humour drains
- 19 Uses of Transposition of lenses
- 20 What are Diagnostic contact lenses
- 21 Mention layers of Retina
- 22 What are laws of Refraction
- 23 What are the types of Vitreous
- 24 What are the various components of Vision
- 25 Types are the materials used for Making spectacles

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ANNUAL EXAMINATION AUGUST - 2018

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN DENTAL MECHANICS

TIME 1. 1/2 HRS.

MAX. MARKS: 45.

**QP CODE — 2171
PAPER I**

I. LONG ESSAY - ANSWER ANY ONE

1 X 10 =10

- 1) What is addition polymerization. Describe in detail the physical stages of polymerization reaction.
- 2) What is an alloy? Mention the various alloys used in prosthodontics. Write in brief about base metal alloys.

II. WRITE SHORT NOTES ON ANY FIVE

5 X 5 = 25

- 3) Ductility and malleability
- 4) Write the difference between fluxes and antfluxes. Mention their examples
- 5) Steps in compression moulding techniques
- 6) Types of waxes
- 7) Plaster of paris
- 8) Materials used in fabrication of denture base
- 9) Write composition of impression compound

III. WRITE SHORT ANSWERS

5 X 2 =10

- 10) Cold mould seal
- 11) Two uses of glass ionomer cement
- 12) 18-8 stainless steel
- 13) Electrolysis
- 14) Cobalt chromium alloys

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

**I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
DENTAL HYGIENE**

TIME 1. 1/2 HRS.

MAX. MARKS: 45.

QP CODE — 2181

ANATOMY (WRITE IN SEPARATE ANSWER BOOK)

I Long essays (any 1)

1x9=9

1. Describe muscles of mastication
2. Describe trigeminal nerve

II Short essays (any 2)

2X5 =10

3. Muscles of face
4. Maxillary artery
5. Pituitary gland

III Short answers

3x2=6

6. Features of tooth
7. Draw a labeled diagram of elastic artery
8. Give 4 features of mandible

Q.P.CODE-2182

PHYSIOLOGY (WRITE IN SEPARATE ANSWER BOOK)

I. Write short notes on any five

4 X 4=16

- 1) Rh blood group system
- 2) Heart sounds
- 3) Chemical regulation of respiration
- 4) Gastro intestinal hormones
- 5) Functions of kidney
- 6) Actions of cortisol

II. Write short answers

2 X 2=4

- 7) What is Eosinophilia
- 8) What is Apnoea

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018

D.P.T-III – SPORTS SCIENCE AND PHYSIOTHERAPY
QP CODE- 3201
SET-I

Time: 02 Hours

Max Marks: 65

1. Long Essay-Answer any FOUR

4 X 10=40

- 1) Explain the therapeutic modalities of sports medicine.
- 2) Physical education for rural population.
- 3) Write the general evaluation and fitness testing program of an athlete after recovery from an injury.
- 4) How do you organize and manage the popularisation of physical culture and sports event?
- 5) Discuss the forecasting and planning of development of Physical culture and sports.

2. Write short note on any FIVE

5 X 5=25

- 6) Physical education for rural students.
- 7) First aid for fracture patient on the field.
- 8) General evaluation of sports person.
- 9) Coxa Vara.
- 10) Boutonniere deformity.
- 11) Bicipital tendonitis

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

II YEAR DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY

TIME 3 HRS.

MAX. MARKS: 100.

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5101

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Classify bones with examples
2. Write about the ear
3. Describe the gluteus maximus muscle
4. Describe the veins of upper extremity
5. Describe the humerus bone

II. Short answers

10 X 3 = 30 marks

6. Name the nerves of brachial plexus
7. Name the muscles in hand
8. Name parts of hip bone
9. Name the joints of lower extremity
10. Name the muscles supplied by femoral nerve
11. Name the contents of cubital fossa
12. Name the bones and cartilages of nose
13. Write about adductor canal
14. Name the contents of femoral sheath
15. Name the nerves of tongue

Subject: Physiology

Q P CODE: 5102

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Briefly explain passive transport
2. Functions of skin
3. Explain stages of erythropoiesis
4. Fate of Hemoglobin. Add a note on jaundice.
5. List types of clotting mechanisms. Add a note on anticoagulants and hemophilia.

II. Short answers

10 X 3 = 30 marks

6. List the types of muscle
7. Muscles of ventilation
8. List the functions of kidney
9. Functions of WBC
10. Components of conducting system of Heart
11. Classify anemia
12. Write a note on hypoxia
13. Draw a neat labelled diagram of nephron
14. List pancreatic hormones
15. List adrenocortical hormones

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018

I Diploma in Medical Imaging Technology

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Time: 3.00 HRS

Max Marks:100

Subject: Radiation Physics

Q P CODE: 5121

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

- 1. WHAT ARE RECTIFIERS. DISCUSS THE PURPOSE AND MECHANISM.
- 2. MAMMOGRAPHY TUBE
- 3. PHOTODISINTEGRATION.
- 4. WHAT ARE THE EFFECTS OF KVP AND MAS ON IMAGE QUALITY.
- 5. COMPTON SCATTERING.

II. Short answers 10 X 3 = 30 marks

- 6. ULTRASOUND TRANSDUCER
- 7. INDICATIONS OF DIGITAL FLUOROSCOPY
- 8. ANODE HEEL EFFECT
- 9. MOVING GRID
- 10. IONIZATION CHAMBER
- 11. K EDGE
- 12. SPACE CHARGE EFFECT
- 13. STEP UP TRANSFORMER
- 14. TYPES OF MRI MACHINE

Subject: Radiation Physics

Q P CODE: 5122

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

- 1. DEFINE ATOM. DESCRIBE THE COMPONENTS OF AN ATOM WITH DIAGRAM
- 2. LEAKAGE RADIATION.
- 3. FACTORS AFFECTING THE EMISSION SPECTRA
- 4. ATOMIC WEIGHT
- 5. RADIOISOTOPE

II. Short answers 10 X 3 = 30 marks

- 6. BINDING ENERGY OF ELECTRON SHELL
- 7. DRAW A NEAT LABELLED DIAGRAM OF THE STRUCTURE OF AN ATOM. DISCUSS BRIEFLY THE COMPONENTS.
- 8. ISOMER
- 9. GAMMA EMISSION
- 10. USES OF TECHNICIUM 99
- 11. COBALT THERAPY
- 12. ALPHA DECAY
- 13. GEIGER MULLER COUNTER
- 14. USE OF IODINE 131
- 15. WAVE PARTICLE DUALITY.

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018

Operation Theatre Technology

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Fundamental of OT

Q P CODE: 5131

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1. central Sterile Services Department (cssd).
- 2. Preoperative care.
- 3. Infection control measures in OT.
- 4. Post-operative care
- 5. OT layout

II. Short answers

10 X 3 = 30 marks

- 6. Caurtery.
- 7. Daily room cleaning.
- 8. Lithotomy position.
- 9. Team work
- 10. Scrub nurse.
- 11. Gloving.
- 12. Endoscopy.
- 13. Consent.
- 14. Team work.
- 15. Instrument counts

Subject: Basic Concept in Surgery

Q P CODE: 5132

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1. Preoperative patient check list.
- 2. CPR.
- 3. Wound management.
- 4. Factor influencing wound healing.
- 5. Endoscopy.

II. Short answers

10 X 3 = 30 marks

- 6. Types of needles.
- 7. Nasogastric tube.
- 8. Daycare surgery.
- 9. Mop count.
- 10. Surgical site infection.
- 11. Suction device.
- 12. Movements in operation theatre
- 13. Surgical gown.
- 14. PDS suture.
- 15. Types of dressings.

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018

Medical Records Technology

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Medical Record Sciences

Q P CODE: 5141

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1).Write brief History of Medical Records In India?
- 2).Write brief note about the Medical Records Committee?
- 3). what is the duties and responsibilities of Reception counter Staff?
- 4). what is Assembling and Deficiency? Explain
- 5). Write brief note about the Registration personnel duties and responsibilities?

II. Short answers

10 X 3 = 30 marks

- 6).What is Inventory register? Explain
- 7).What is Mid Night Census? Explain
- 8).Write the Functions of Emergency medical services (EMS)?
- 9).Write the contents of Discharge Summary
- 10).Design Deficiency Check format
- 11). Accident Register
- 12).How to preserve the Medical Records for long time?
- 13).What is patient Alpha Index Card? Explain
- 14).What types of equipment required in MRD?
- 15).Duties and Responsibility of Medical Records Officer?

Subject: Medical Record Sciences

Q P CODE: 5142

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1).Write brief note about the Organization of Medical Record Department (MRD)?
- 2).Write brief note about the functions of MRD?
- 3). what is the duties and responsibilities MRD Staff?
- 4). Write the Rules and Regulation of Birth and death Act?
- 5). Write brief note about Medico Legal Cases?

Short answers

10 X 3 = 30 marks

- 6).Define Court
- 7).Why made Corrigendum in MRD?
- 8) Which is the active and inactive records explain?
- 9).What is ICD ? Explain
- 10).What procedure following encase of Production of Medical Records in the Court?
- 11). Define Cognizable and Non Cognizable
- 12).Who is the public servant? Explain
- 13).What procedure following the release of Information of Medical Records in Third party?
- 14).Write the procedure of get the Age Estimation Certificate?
- 15).Wound Certificate?

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018

DIALYSIS TECHNOLOGY

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Pharmacology

Q P CODE: 5151

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

- 1. Uses and contraindications for the use of opioid analgesics.
- 2. Management of status asthmaticus.
- 3. What are the general considerations when choosing an antibiotic?
- 4. Write about calcium preparations.
- 5. Write the differences between dopamine and dobutamine.

II. Short answers 10 X 3 = 30 marks

- 6. Sources of drug information.
- 7. Uses of pantoprazole.
- 8. Hematinics and their uses.
- 9. Influenza vaccine.
- 10. Dicoumarol.
- 11. Propofol
- 12. Intradermal route of drug administration
- 13. Uses of amiodarone.
- 14. Side effects of atropine.
- 15. Uses of Domperidone.

Subject: Theory of Dialysis

Q P CODE: 5152

I. Short notes, answer any FOUR questions. 4 X 5 = 20 marks

- 1. Describe consequences of renal failure
- 2. Enumerate the advantages of dialyzer reuse.
- 3. What are AAMI standards for water quality in HD?
- 4. Anatomy of artificial kidneys (dialyzers) with diagram
- 5. Precautions to be taken while dialyzing a sero-positive patient for patient and your safety

II. Short answers 10 X 3 = 30 marks

- 6. Disadvantage of dialyzer reuse
- 7. What is osmosis?
- 8. Name anticoagulants (IV and oral)
- 9. Types of dialyzers based on flux
- 10. Name disinfectants used in sterilization of dialyzers
- 11. What are the types of dialysis catheters?
- 12. KUF (Coefficient of ultrafiltration)
- 13. What is ultrafiltration (UF)?
- 14. What is CCPD/ APD?
- 15. Types of vascular access in HD

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018

OPHTHALMIC TECHNOLOGY

Time: 3. 00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper I

Q P CODE: 5161

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . Cross section of upper eyelid
- 2 . Drainage of aqueous humour
- 3 . Ocular movements
- 4 . Uses of various mirrors in ophthalmology / Contents of orbit
- 5 . Types of astigmatism

II. Short answers

10 X 3 = 30 marks

- 6 . Types of blepharitis
- 7 . Trichiasis
- 8 . schrimmer test
- 9 . Near vision charts
- 10. Uses of prism
- 11. Fogging technique
- 12. Astigmatic fan
- 13. Uses of cylindrical lens
- 14. A-scan
- 15. Grades of binocular single vision

Subject: Paper I

Q P CODE: 5162

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1 . How to write prescription format
- 2 . Describe the types and management of Myopia
- 3 . Contact lenses and its indications
- 4 . Refractive surgeries
- 5 . Advantages of executive bifocal lenses

II. Short answers

10 X 3 = 30 marks

- 6 . Multifocals
- 7 . Name the tests used to check binocular single vision
- 8 . Complications of contact lens use
- 9 . What is simple transposition of lenses for -2Dspherical
- 10. -1.0 cylindrical at 90 degrees
- 11. Methods of correction of aphakia
- 12. Antireflection coating
- 13. Parts of spectacles
- 14. Intraocular refractive surgeries
- 15. Visual acuity test in children

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ANNUAL EXAMINATION AUGUST - 2018

DENTAL MECHANICS

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

Write neat diagrams wherever necessary, Handwriting should be legible.

SUB: Dental Materials & Metallurgy

Q P CODE: 5171

I. Short Notes, Answer Any FOUR Questions

4x5=20

1. Classify dental waxes and explain about wax distortion
2. Types of cast and die materials
3. Incomplete casting
4. Difference between self-cure and heat cure resin
5. Physical and chemical stages of polymerisation

II. Short Answers

10x3=30

6. Black casting
7. Shrink spot porosity
8. Classification of gypsum bond investments
9. Forms of silica
10. Wet strength
11. Uses of impression plaster
12. Balanced stone
13. Type V gypsum
14. Composition of addition silicon
15. Dust free alginate

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ANNUAL EXAMINATION AUGUST - 2018

DENTAL HYGIENE

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5181

I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

- 1. Describe the facial nerve
- 2. Write about nerve supply of tongue
- 3. Describe the development of tooth

II. Short answers

5 X 3 = 15 marks

- 4. Thyroid gland
- 5. Name the bone cells
- 6. Lymphatic drainage of face
- 7. Name the muscles of mastication
- 8. Mention features of mandible

Subject: General Physiology

Q P CODE: 5182

I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

- 1. Write in short about conducting system of heart
- 2. Define GFR. What are the factors maintaining GFR
- 3. Write a note on the menstrual cycle.

II. Short answers

5 X 3 = 15 marks

- 4. Name the hypothalamic hormones
- 5. Give a list of thyroid hormones
- 6. Which are the adrenal cortical hormones?
- 7. Diagrammatically discuss on airway system
- 8. Contraceptives of female

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ANNUAL EXAMINATION AUGUST - 2018

I-DPT

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

i) The question paper has two parts A and B. Both the parts are compulsory.

ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 4191

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Classify Bones with example
2. Elbow joint
3. Middle ear
4. Anterior Abdominal wall muscles
5. Popliteal fossa

II. Short answers

10 X 3 = 30 marks

6. Cornea
7. Name muscles of joint of arm
8. Name carpal bones
9. Name 3 Nerves of lower limb
10. Hyaline cartilage
11. Neuron
12. Name ear ossicles
13. Parts of Mandible
14. Branches of brachial artery
15. Name extra ocular muscles

Subject: Anatomy

Q P CODE: 4192

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Conductive system of heart
2. Trachea
3. Cerebral hemisphere
4. Facial Nerve
5. Suprarenal gland

II. Short answers

10 X 3 = 30 marks

6. Divisions of Mediastinum
7. Name 3 intercostals muscle
8. Branches of Coeliac trunk
9. Gall bladder
10. Functions of liver
11. Name 3 paranasal air sinus
12. Peripheral Nerve
13. Parathyroid glands
14. Ovary
15. Testis

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
Medical Laboratory Technology
QP CODE – 3102 (RS1)
Subject: Pathology

Time: 3 Hours

Max. Marks : 90

I. Long Essay : (Answer any two)

2x10=20

1. Write in detail the collection, screening tests and storage of blood in Blood Bank.(3+4+3)
2. Mention different types of Haematoxylin stain. How do you prepare Haematoxylin and Eosin stain. Write the steps of staining procedure.(3+3+4)
3. Write in detail the collection, physical examination, chemical examination and microscopy of Semen Analysis (2+2+2+4)

II. Short Essay : (Answer any ten)

10x5=50

4. Physical and Microscopic examination of Cerebrospinal Fluid (CSF).
5. Manual tissue processing.
6. Composition and staining by Periodic Acid Schiff (PAS) stain.
7. Methods of Crossing Matching in Blood Bank.
8. Transfusion reactions.
9. Preparation and staining of Bone marrow smear.
10. Prothrombin Time.
11. Osmotic fragility test.
12. Histokinetite-Merits and Demerits.
13. Mounting of Museum specimens.
14. Methods of Decalcification.
15. Uses of Neubauer chamber. Write formula for WBC count.

III. Short Answer :

10x2=20

16. Name four stains used for Amyloid.
17. Fibrinogen Degradation Product (FDP)
18. Two types of blood grouping with principles.
19. Name the sites of Bone marrow aspiration and needle used.
20. Name two special stains used in Histopathology
21. Name two fixatives used in cytology.
22. Name the blood components in Bloodbank
23. Thrombin Time
24. Name two stains used in sputum microscopic examination.
25. Name any two automated Equipments used in Haematology.

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

HEALTH INSPECTOR
QP CODE — 3112(RS1)
Subject: Paper II

Time 3 Hrs.

Marks:90

I. Long Essay — Answer any TWO

2x10=20.

1. Discuss in detail School Health Programme
2. Discuss the common Health problems of the Elderly. Add a note on Social Security.
3. Define Health Education. Discuss in detail Health Education

II. Write Short notes on any TEN.

10x5=50.

4. Child Labour.
5. Prevention of Juvenile Delinquency.
6. Role play/Street play.
7. Role of Female Health Worker in Maternal and Child Health Services.
8. Dowry Prohibition.
9. Health Problems of Adolescents and its Preventive measures.
10. Indian Factories Act.
11. Expand Reproductive and Child Health (RCH). What are the components of RCH.
12. Group Discussion.
13. Street Children.
- 14 Barriers in Communication.
- 15 Complications of Postnatal Care.

III. Write Short Answers.

10x2=20.

16. Essential Drugs- Any Two.
17. Advantages and Disadvantages of Oral Contraceptive Pills —Any Two Each.
18. Eligible Couple.
19. Contents Of Health Education —Any Two.
20. Tetanus Toxoid for Pregnant Mother.
21. Principles Of Health Education-Any Two
22. Objectives Of Postnatal Care-Any Two.
23. Couple Protection Rate.
24. Uses of Demography- Any Two
25. Causes of Infant Mortality —Any Two.

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ANNUAL EXAMINATION AUGUST - 2018

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

Medical X-Ray Technology

QP CODE — 3122(RS1)

Subject: RADIOGRAPHY INCLUDING MEDICAL RECORDS R — II

Time: 3 hrs

Max. Marks: 90

I. LONG ESSAY — ANSWER ANY TWO

2 x 10 = 20

- 1) Explain about micturating cystourethrography?
- 2) Discuss about medical records. Describe characteristics of good medical record?
- 3) Explain about ionic and non-ionic contrast in Computed Tomography (CT).
Add a note on arterial, portal and venous phases in CT?

II WRITE SHORT NOTES ON ANY TEN

10 x 5 = 50

- 4) Digital subtraction angiography.
- 5) Loopogram.
- 6) Cassettes.
- 7) Medical records.
- 8) Picture Archiving And Communication System (PACS).
- 9) Consent form.
- 10) Chest X-ray.
- 11) Centring.
- 12) Intravenous urography.
- 13) Collimators.
- 14) Dark room and its use.
- 15) Hysterosalpingography (H.S.G)

III. WRITE SHORT ANSWERS

10 x 2 = 20

- 16) Hospital information system and radiological information system.
- 17) View box.
- 18) Sinogram.
- 19) TLD badges.
- 20) Electromagnetic wave.
- 21) Latent image.
- 22) Indications of binders.
- 23) Filament.
- 24) Intensifying screens.
- 25) Clinical history.

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
OT Technology
QP CODE – 3132(RS1)
OPERATIVE PROCEDURE

Time 3 Hrs.

Max. Marks: 90.

I LONG ESSAY- ANSWER ANY TWO

2x10=20

1. Explain Breast Procedures. Describe Modified Radical Mastectomy with Diagrams.
2. Define Amputation. Name different types of Amputation, Explain below knee Amputation
3. What is Hernia? Mention types of Hernia, Explain Hernia Surgery with diagrams

II. WRITE SHORT NOTES ON ANY TEN

10x5=50

4. Deviated Nasal Septum
5. Hysterectomy
6. Skin Graft
7. Retractors
8. Ryles Tube
9. Tubectomy
10. Prostate Surgery
11. Sebaceous Cyst
12. Circumcision
13. Hypervolemic Shock
14. Laparoscopy
15. Closed Reduction

III WRITE SHORT ANSWERS

10 X2=20

16. Abdominal Drain
17. Allis Forceps
18. Debridement
19. Burrhole
20. Types of Cautery
21. Traction for Fracture
22. Bowel Preparation
23. Cataract Surgery
24. Appendectomy
25. Circumcission

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
Medical Record Technology
Hospital Administration
QP CODE — 3142(RS1)

Time : 3 Hours.

Max. Marks:90.

I. Long Essays.

2x10=20

1. Define hospital. What are the different levels of Hospital. Write in detail function of tertiary care hospital
2. Write the outlay of Out Patient Department OPD services
3. What are nosocomial infection. How will you prevent it

II. Write briefly on any TEN

10x5=50

4. Handling and disposal of sharps
5. Process of management
6. Cost benefit analysis
7. Write a note on ambulance services
8. Hospital records
9. Medical audit
10. Security measures in a hospital
11. Functions of nurses
12. Function of hospital administrator
13. Management of expired drugs
14. Function of blood bank
15. Functions of dietary departments.

III. Write Short Answers

10x2=20

16. Motivation.
17. Function of Medico - social Department. Any two
18. Two functions of Lab technician.
19. Computers in Medical Records Department (MRD).
20. Two functions of Voluntary health agencies.
21. Mention 2 functions of Hospital Committee
22. Purpose of Planning.
23. Define Disaster Mitigation.
24. Inventory control.
25. Vocational Rehabilitation.

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ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
DIALYSIS TECHNOLOGY
Renal Replacement Therapy Other Than Haemodialysis
& Patient Teaching
QP CODE - 3152(RS1)

Time: 3 hrs

Max. Marks: 90

I. LONG ESSAYS - ANSWER ANY TWO **2 x 10 = 20**

1. What are various types of dialysis in patients in Intensive Care Unit ICU? Add a short note on Sustained Low-Efficiency Dialysis (SLED). (5+5)
2. Describe the principles of peritoneal dialysis. What are the various types of peritoneal dialysis catheters? Also mention three complications of peritoneal dialysis. (4+3+3).
3. Describe the principles of plasmapheresis. What are the common indications for plasmapheresis? Also mention 2 replacement fluids.(4+4+2)

II. WRITE SHORT NOTES ON ANY TEN **10 x 5 = 50**

4. Describe the dialysis team in your unit. What are the functions of each member?
5. Describe haemoperfusion. What are the indications for haemoperfusion?
6. Write a short note on Anatomy of peritoneum and its blood supply.
7. Define peritonitis in Continuous Ambulatory Peritoneal Dialysis (CAPD) patients. Also add a short note on treatment of peritonitis.
8. What is haemofiltration? Write the indication and advantages.
9. Composition of peritoneal dialysis solution.
10. Contraindications for peritoneal dialysis.
11. Complications of peritoneal dialysis
12. What are the components of a typical haemodialysis protocol record and its importance?
13. Dialysis for poisoning.
14. Write a note on nutrition of haemodialysis patients. Mention about two objective measures of nutritional status in HD patients.
15. What is peritoneal equilibration test? What is its clinical significance?.

III. WRITE SHORT ANSWERS **10 x 2 =20**

16. Distribution of total body water into fluid compartments
17. Two poisons removed by haemodialysis
18. Two causes of outflow failure in Continuous Ambulatory Peritoneal Dialysis (CAPD)
19. Types of automated peritoneal dialysis.
20. Characteristics of high transporters
21. Two disinfectants used for dialyser reprocessing
22. Indications for peritoneal dialysis catheter removal.
23. Name 2 vaccines used in haemodialysis patients.
24. Define Sustained Low-Efficiency Dialysis (SLED). One Indication for SLED
25. What is Continuous Renal Replacement Therapy (CRRT)? What is the blood pump speed in CRRT?

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

Ophthalmic Technology
PAPER –II
QP CODE-3162(RS1)

Time: 3hrs

Max.Marks:90

I. Long essay — Answer any Two.

2 x10 = 20

1. National control for control of blindness [NPCB]
2. Functioning and publicity of Eye banks
3. How to do screening of school children for eye problems

II. Write short notes on any TEN.

10 x 5 = 50

4. What is vocational training of blind person
5. Preservative Media used for Eucleated eyeball
6. What are Minor ophthalmic surgical procedures?
7. List out common eye problems in children.
8. Nursing care for patients undergoing eye surgeries
9. How to educate people regarding eye check ups
10. Numerical Index
11. What are different types of consents for a patient undergoing any eye surgery?
12. How to maintain OPD records
13. Write about Organ Donation (eye)
14. What is Survey Methodology
15. Write a note on Vision 2020

III. Write short answers

10 x2 = 20

- 16 Name two common eye problems in children
- 17 What is Target group
- 18 How to test for Near vision
- 19 ICD-10
- 20 What are the ways to Train Blind person
- 21 Education for patients with Glaucoma
- 22 Demographic profile of Eye problems
- 23 Mention Three Ophthalmic Emergencies
- 24 What is SAFE strategy in Trachoma
- 25 Mention 4 eye signs of Vitamin A Deficiency

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

DENTAL MECHANICS
PARTIAL DENTURES, ORTHODONTIA, MAXIOFACIAL PROSTHESIS
QP CODE - 3172(RS1)

Time: 1 '1/2 hrs

Max. Marks: 45

I. LONG ESSAY

1 X 10 =10

1) What is an alloy? Mention the various alloys used in prosthodontics.
Write in brief the fabrication procedure of cast partial denture.

II WRITE SHORT NOTES

5 X 5=25

- 2) Kennedy classification
- 3) Obturator
- 4) Casting defects
- 5) Major connector
- 6) Duplicating materials

III. WRITE SHORT ANSWERS

5 X2 =10

- 7) Hawley's Appliance
- 8) Materials used in maxillofacial prosthesis
- 9) Circumferential clasp
- 10) Refractory cast
- 11) Shaped block out

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
DENTAL HYGIENE
DENTAL HEALTH EDUCATION, SOCIAL & PUBLIC HEALTH & PREVENTIVE
DENTISTRY
QP CODE - 3182(RS1)

Time: 1 '1/2 hrs

Max Marks: 45

I. Long essay

1 x10=10

1. Describe various mechanical plaque control measures.

II. Write short notes

5x5=25

2. Child and parent counselling.
3. Oral hygiene index simplified
4. Prevalence and prevention of dental caries
5. Dental health education
6. Community water supply on dental health

III. Write short answers

2x5=10

7. Oral health in handicapped
8. Periodontal disease prevention
9. Dental floss
10. Habits and effect on dental structures
11. Environmental health

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

II D.P.T- PHARMACOLOGY

QP CODE – 3192(RS1)

Time: 3 hrs

Max. Marks: 90

I. Long Essay (Answer any FOUR)

4 X 15 = 60

1. Enumerate various routes of drug administration giving one example for each route. Write the advantages and disadvantages of Intravenous route.
2. Outline the pharmacology of Atropine.
3. Outline the pharmacology of Opioid Analgesics.
4. List various classes of drugs used to treat hypertension giving suitable examples. Write the therapeutic uses and adverse effects of ACE Inhibitors.
5. Outline the pharmacology of Aminoglycoside antibiotics.

II. Write short notes on any FOUR

4 X 5 = 20

6. Nitrates.
7. Glucocorticoids – Therapeutic uses.
8. Lignocaine
9. Aspirin.
10. Phenytoin.

III. Write short answers

5 X 2=10

11. Mention TWO contraindications for Propranolol.
12. Name TWO Neuromuscular blockers.
13. Mention TWO uses of Cotrimoxazole.
14. Name TWO Calcium channel blockers.
15. Mention TWO clinical uses of Ethyl alcohol.

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

CERTIFICATE COURSE

CHEMISTRY

QP CODE 1102

Time: 1. ½ hrs

Max. Marks: 45

I. LONG ESSAY-ANSWER ANY ONE

1 x 10 =10

1. Explain the preparation, properties and uses of hydrogen Peroxide.
2. Explain the preparation, properties and uses of Ethyl alcohol.

II. WRITE SHORT NOTES ON ANY FIVE

5 x 5=25

3. Purines and Pyrimidines
4. Properties and uses of phenol
5. Uses of chlorine
6. Functional properties of enzymes and antibodies
7. Tyndall effect
8. Biological importance of DNA
9. Indicator

III. WRITE SHORT ANSWERS

5 x 2 = 10

10. Structure of atom
11. Function of RNA
12. Radioactive dating
13. Normality and molarity
14. Oxytocin

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ANNUAL EXAMINATION AUGUST - 2018

PARAMEDICAL BOARD, BENGALURU

Sub: CHEMISTRY (1st YEAR DIPLOMA) OF ALL COURSES (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write balanced chemical equations and draw labelled diagrams wherever asked.

SECTION- A Q P CODE: 4103

I Short Notes, Answer Any FOUR Questions.

4 X 5 = 20

- 1 a) what is Reversible reaction ? example b) Write the Kp and Kc Pcl₅
- 2 Give two Merits and three Limitations of Bohr's Model of an atom
- 3 Mention uses of Ethane
- 4 What are the applications of co-ordination compounds
- 5 What is Natural radioactivity and write the Properties of α, β, δ Particles

II. Short Answers.

10 X 3 = 30

- 6 What is caustic soda ? two uses
- 7 Define a) Acid b) Base c) salt with examples
- 8 How to Produce the x-rays
- 9 What is plaster of Paris ? explain the composition of Bone
- 10 Explain a) Dialysis of colloids b) Cottrell's electrical Precipitator
- 11 Define a) valency b) Explain the Anomalous Properties of water
- 12 Mention uses of Sulphuric acid
- 13 Define atomic and Molecular Masses with example
- 14 Write three characteristic features of co-valent bond
- 15 Calculate the amount NaOH required to prepare 100 ml of 0.1 N NaOH solution

SECTION- B Q P CODE: 4104

I Short Notes, Answer Any FOUR Questions.

4 X 5 = 20

- 1 How to prepare alcohol from Molasses Method ?
- 2 What is the Addition of Hydrogen on a) Alkene b) Alkyne c) addition of Iodine in Methane
- 3 Write the Structure of a) Glycine b) alanine c) Serine d) Cysteine e) Lysine
- 4 Explain the ring structure of a) Maltose b) Sucrose
- 5 Uses of Toluene

II. Short Answers.

10 X 3 = 30

- 6 Define a) Free radicals b) Carbanions c) Carbocations
- 7 Define environmental chemistry ? explain tropospheric pollution in 100 words
- 8 Write the Biological importance of Nucleic acid
- 9 How to prepare Acetone write two uses of Acetone
- 10 Give the classification of amine example of each
- 11 Mention three uses of Phenols
- 12 Define carbohydrate and explain classification
- 13 Write three chemical Properties of Benzene
- 14 Define a) Aliphatic b) Aromatic and Heterocyclic compounds
- 15 Explain the classification of Proteins Depending up on the nature

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
Medical Laboratory Technology

QP CODE — 2103 (RS1)

Subject: Biochemistry

Time 3 Hrs.

Max. Marks: 90.

I. Long Essay : (Answer any two)

2x10=20

1. Define Lipids. Classify them with suitable examples and add a note on its functions. (2+5+3 =10)
2. Explain enzymes under following headings.
b) Definition b) active site c) specificity d) isoenzymes e) diagnostic enzymes (2+2+2+2+2=10)
3. Explain with diagram photoelectric colorimeter and its uses in laboratory. (7+2 =10)

II. Short Essay : (Answer any ten)

10x5=50

4. Conjugate proteins
5. Functions of carbohydrates.
6. Titration
7. Explain equivalent weight and molecular weight with examples
8. Analytical balance
9. Type of Centrifuge
10. Arrangement of reagents, glassware in laboratory
11. Water bath
12. Explain atomic number, atomic weight and molecular weight with examples
13. Hot air oven
14. Protein denaturation
15. Functions of Minerals

III. Short Answer :

10x2=20

16. Essential fatty acids
17. Two examples of strong Bases
18. Define pH. What is normal pH of urine
19. Structure of atom
20. Epimers
21. Definition of Buffers
22. Uses of indicators
23. Pipette and auto pipette
24. Safety measures in Laboratory
25. Percent solution with example

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

HEALTH INSPECTOR
QP CODE — 2111(RS1)

Subject: Paper I

Time 3 Hrs.

Max. Marks: 90.

I. Long Essay — Answer any TWO

2x10=20.

1. Define family. Write in detail the types of family.
2. Role of family in health and diseases
3. Write neat labelled diagram of heart. Write functions of heart

II. Write Short notes on any TEN.

10x5=50.

4. Functions of digestive system.
5. Write functions of thyroid gland,
6. Permanent spatial group.
7. Broken family.
8. Urban Society.
9. Hidden hunger
10. Social Security.
11. Effects of industrialisation.
12. Role of family in child rearing.
13. Write social factors influencing health.
14. Medico social worker
15. Team work.

III. Write Short Answers.

10x2=20.

16. Types of learning.
17. Poverty
18. Define mores with examples.
19. Define community.
20. Motivation
21. Name 3 social problems
22. Define anthropology
23. Crowd
24. Food taboos with 3 examples
25. Define problem family

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
Medical X-Ray Technology

QP CODE — 2122(RS1)

Subject: Anatomy

Time : 1. ½ Hrs

Max marks: 45

I Long Essay – answer any two

2x10=20

1. Name parts of respiratory system. Describe left lung in detail
2. Name parts of alimentary system. Describe duodenum in detail
3. Name parts of central nervous system. Describe cerebellum in detail

II Short Notes – answer any three

3x5=15

4. Kidney
5. Uterus
6. Right atrium
7. Hyaline cartilage

III Short answers

5x2=10

8. Name 4 carpal bones
9. Name parts of pituitary gland
10. Name branches of arch of aorta
11. Name gross features of large intestine
12. What is thoracic duct

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
OT Technology

Time 3 Hrs.

Max. Marks: 90.

SECTION – A Biochemistry (Write in separate answer book) QP CODE – 2132(RS1)

- I LONG ESSAY- ANSWER ANY ONE** **1x10=10**
1. Define pH. What is normal pH of blood? Name blood buffers. Explain the factors maintaining normal blood pH.
 2. Name commonly found abnormal constituents of urine and how do we test these abnormal constituents in urine.
- II. WRITE SHORT NOTES ON ANY TWO** **2x5=10**
3. Formation and excretion of urea
 4. Urea Cycle.
 5. Absorption of carbohydrates.
- III WRITE SHORT ANSWERS** **5X2=10**
6. Common causes for metabolic acidosis
 7. Normal values of fasting and post prandial blood glucose..
 8. Tests for albumin.
 9. Normal values of blood urea and serum creatinine.
 10. Normal values of serum electrolytes

SECTION – B, PHARMACOLOGY (Write in separate answer book) QP CODE – 2133(RS1)

- I. ANSWER ANY ONE** **1 x 10 =10**
1. Name SIX Opioid Analgesics. Mention TWO therapeutic uses, TWO adverse effects and TWO contraindications of MORPHINE.
 2. Name any SIX commonly used Penicillins. Write the Mechanism of action, uses & adverse effects of Penicillins.
- II. WRITE SHORT NOTES OF ANY TWO** **2 x 5 =10**
3. Oral route of drug administration.
 4. Lignocaine.
 5. Calculate the dose of a drug for a patient weighing 35 kg, if the adult dose is 100mg.
- III. WRITE SHORT ANSWERS** **5 x 2 =10**
6. Name TWO inhalational anaesthetics.
 7. Name FOUR drugs used to treat Tuberculosis.
 8. Name TWO Antiseptics used to sterilize skin.
 9. Mention TWO complications of Spinal anaesthesia.
 10. Mention TWO uses of Diazepam.

SECTION – C, MICROBIOLOGY (Write in separate answer book) QP CODE – 2134(RS1)

- I. Answer any one** **1X10=10**
1. Define and classify Disinfection. Write a note on Hot air oven.
 2. Define immunity. Write in detail about Active and Passive immunity.
- II. Write short notes on any two** **2X5=10**
3. Nosocomial infections.
 4. Hepatitis B Virus
 5. Describe cell wall in detail
- III. Write short answers** **5X2=10**
6. Koch phenomenon
 7. Types of flagella with examples
 8. Name two examples for Gram positive bacilli.
 9. Define Holding period.
 10. Types of Hypersensitivity

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

Medical Record Technology

SECTION – A Anatomy (Write in separate answer book) QP CODE – 2142(RS1)

- I. Long Essay – answer any one** **1x10=10**
1. Name the parts of GIT. Describe stomach in detail
2. Name the parts of Respiratory system. Describe the Trachea in detail
- II. Short Notes – answer any two** **2x5=10**
3. Pituitary gland
4. Salivary gland
5. Gross structure of Cerebellum
- III. Short answers** **5x2=10**
6. Name two bones of upper limb
7. Name the parts of brain
8. Name the parts of small Intestine
9. Name two cranial nerves
10. Name two bones of skull

Section B —Physiology (Write in separate answer book) Q-P code -2143 (RS1)

- I. Write short notes on any four** **4x5=20**
1) Functions of WBC's
2) Nerve supply to bladder and micturition reflex
3) Conducting system of Heart
4) Lung volumes and Capacities
5) Hormones of adrenal cortex
6) Functions of large intestine
- II. Write short answers** **5x2=10**
7) What is Hypoxia
8) What is Anaemia
9) Functions of Hydrochloric acid HCl in stomach
10) What is Myopia
11) Name muscles of Middle ear

SECTION –C, PATHOLOGY& MICROBIOLOGY (Write in separate answer book) 2144(RS1)

- I. Long Essay (Answer any one)** **1 x 10= 10**
1. Explain the importance of microbiology-in relation to medical records
2. Explain record keeping in histopathology
- II. Short Essay on any two** **2x 5 = 10**
3. Causes of infection
4. Widal test
5. Tuberculosis
- III. Short Answers** **5x 2 = 10**
6. Name two acid fast organisms
7. Grams stain
8. Name two fungal diseases
9. Name two spore bearing bacteria
10. Classify viruses

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ANNUAL EXAMINATION AUGUST - 2018

I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

DIALYSIS TECHNOLOGY

SECTION – A Biochemistry (Write in separate answer book) QP CODE – 2153(RS1)

I LONG ESSAY- ANSWER ANY ONE

1. Urea cycle. Add a note on its importance
2. Factors regulating normal blood glucose level. Give the normal range of blood glucose levels.

II. WRITE SHORT NOTES ON ANY FIVE

5x5=25

3. Specific gravity of urine
4. Disorders of Acid base balance
5. Qualitative tests for inorganic constituents of normal urine.
6. Creatinine synthesis
7. Principle and applications of pH meter in dialysis
8. Digestion of carbohydrates.

III WRITE SHORT ANSWERS

5X2=10

9. Applications of chromatography in dialysis
10. Benzidine test
11. Abnormal constituents of urine
12. Give the normal range of serum electrolytes
13. Test for sugar in urine.

SECTION – B Microbiology (Write in separate answer book) QP CODE – 2154(RS1)

I. Long essay

1*10=10

1. Define disinfection. Describe in detail about chemical disinfection.
2. Describe in detail about lab diagnosis of Hepatitis B Infection.

II. Write short notes on any five

5*5=25

3. Hepatitis A Virus
4. Natural immunity
5. Edward Jenner
6. Cholera
7. Prevention of HIV Infection
8. Difference between cell wall of gram positive and gram negative bacteria

III. Write short answers

5*2=10

9. Name two motile bacteria
10. Name two parts of bacteria
11. Name two DNA Viruses
12. Name two Gram Positive Bacteria
13. Name two articles sterilized by Hot air oven

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
Ophthalmic Technology
Q.P Code : 2162 (RS1)

Time : 3 Hrs.

Max. Marks : 90

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

I. LONG ESSAY (Answer any two)

2 X 10 = 20

1. What is corneal ulcer ? How to Manage fungal corneal ulcer
2. Define Amblyopia, What are modes of management of Amblyopia .
3. Brief note on Microbiological examination for corneal ulcer patients .

II. Short Essay

10 X 5 = 50

4. How to assess Binocular vision
5. What are the ocular changes seen in Diabetes
6. How to perform lacrimal syringing
7. How to Check IOP
8. Note on local anaesthetics used in eye
9. Write few systemic side effects of commonly used ophthalmic drugs
10. Uses of Mannitol
11. List out the common causes of blindness in children
12. Complications of cataract surgeries
13. Uses of Fluorescein in ophthalmology
14. Clinical features of bacterial conjunctivitis and common measures to be taken for the same
15. What are the sources of Vitamin A

III. Write Short Answers

10X2=20

16. Mention two Antifungal drugs with dosage
17. Common Ocular Emergencies
18. Classify Injuries of eye
19. Write two diagnostics used in Glaucoma
20. Uses of Pilocarpine
21. What are different types of corneal opacities
22. Mention methods to prevent Trachoma
23. Drugs used in treatment of uveitis
24. Specific treatment of corneal ulcers
25. What is Maddox rod ? Its clinical Importance

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
DENTAL MECHANICS

APPLIED ORAL ANATOMY Q.P Code : 2172 (RS1)

Time : 1.1/2 Hrs.

Max. Marks : 45

I. LONG ESSAY - ANSWER ANY ONE **1 X 10 = 10**

- 1) Describe the Anatomy of Maxillary permanent first molar.
- 2) Maxillary denture- Supporting and limiting structures

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

- 3) Primary stress bearing areas
- 4) Muscles of Mastication
- 5) Posterior palatal seal area
- 6) Temporomandibular joint
- 7) Anatomy of maxillary right permanent central incisor
- 8) Class I occlusion
- 9) Tooth carving

III. WRITE SHORT ANSWERS **5 X 2 = 10**

- 10) Rugae
- 11) Bilabial sounds
- 12) Frenum and its significance
- 13) Denture relief areas
- 14) Mention different tooth numbering systems

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
DENTAL HYGIENE

Section- A, GENERAL PATHOLOGY & MICROBIOLOGY

(Write in separate answer book) QP code – 2183 (RS1)

Time : 1.1/2 Hrs.

Max. Marks : 45

I. Long Essay (Answer any one)

1 x 9= 9 Marks

1. What is inflammation. Describe the cellular events in inflammation
2. Write an essay on oral manifestations of systemic disease

II. Short Essay on any four

4x 5 = 20 Marks

3. Oral manifestation of scurvy.
4. Hypersensitivity
5. Caseation necrosis
6. Complications of wound healing.
7. Methods of sterilization
8. Dental anomalies

III. Short Answers

3x 2 = 6 Marks

9. Name two gram negative bacteria
10. Name two malignant tumors of- oral cavity.
11. Methods of disinfection

Section- B, GENERAL PHARMACOLOGY (Write in separate answer book)

QP CODE- 2184 (RS1)

I. Write short answers

5 x 2 = 10

1. Name TWO NSAIDs used in Dentistry.
2. Name TWO Systemic routes of drug administration. Give ONE example for each route.
3. Name TWO Local Anaesthetics.
4. Write TWO uses of Heparin.
5. Name TWO Fluoride preparations used in Dentistry.

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ANNUAL EXAMINATION AUGUST - 2018

III D.P.T- YOGA & MENTAL HEALTH

QP CODE – 3202 (RS1)

Time: 2 hrs

Max. Marks: 65

I. Long Essay - Answer any FOUR

4 X 10 = 40

- (1)What are rules and regulation to be followed during practice of Yogasana?
- (2)Explain the principles of yoga therapy.
- (3)Describe the techniques of Suryanamaskara.
- (4)Therapeutic benefits of Pranayama.
- (5)Discuss differences between yoga therapy and modern medical science.

II. Write short notes on any FIVE

5 X 5 = 25

- (6)Immature Personality.
- (7)Samadhi.
- (8)Yoga for psychiatric patients.
- (9)Normal Mental Health.
- (10)Effects of Yogasanas in Parkinsonism.
- (11)Yogic Diet.

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ANNUAL EXAMINATION AUGUST - 2018

II4 Diploma in Medical Laboratory Technology (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) **The question paper has two parts A and B. Both the parts are compulsory.**
Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Biochemistry

Q P CODE: 5103

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Explain the principle and components of Colorimeter. Write about Beer Lambert's law.
2. Ion selective Electrodes.
3. Describe Venipuncture with respect to preliminary steps, location, preparation of site and blood collection.
4. Anticoagulants. Add a note on different types of vacutainers.
5. Precautions and measures to be taken to prevent hazards from Volatile substances and compressed gases in laboratory.

II. Short answers

10 X 3 = 30 marks

6. Dessicator.
7. Define Hemolysis. Enumerate the causes of hemolysis of blood sample.
8. Deep Freezer.
9. Internal Quality Control.
10. Deionized water.
11. Write about cleaning of plastic ware in laboratory.
12. Name the diseases from which lab technicians can protect themselves by the use of Gloves while handling blood and other body fluids in the laboratory.
13. Volumetric Flasks.
14. Types of Centrifuges.
15. Define a) Solute. b) Solvent. c) Solution.

Subject: Biochemistry

Q P CODE: 5104

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Define isoenzymes. Write in detail isoenzymes of LDH, ALP and CPK.
2. Define heteropolysaccharides. Add a note on each one with its significance.
3. Classify plasma proteins. Add a note on biochemical functions of each class.
4. Write in detail about vitamin -K
5. Define micro-minerals. Add a note on any two micro-minerals and their clinical significance.

II. Short answers

10 X 3 = 30 marks

6. What are strong acids and strong bases?
7. Classify different types of salt.
8. Define buffers. How standard buffer solution is prepared?
9. Normal values of serum sodium, potassium and chloride .
10. Define essential amino acids and name them.
11. Structure of IgG and label the parts.
12. Define purines and pyrimidines and name them.
13. Define metallo-enzymes and metal activated enzymes with on example.
14. Name the test to determine normal constituents of urine.
15. In which condition sugar and ketone bodies are seen in urine? Name the tests to determine them.

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

II DIPLOMA IN HEALTH INSPECTOR(RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) **The question paper has two parts A and B. Both the parts are compulsory.**
Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Paper I

Q P CODE: 5111

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Explain Human Digestive System.
- 2) Briefly explain Dimensions of Health.
- 3) Explain the Special Sense Organs.
- 4) Risks factors of Diseases.
- 5) Spectrum of Health.

II. Short answers

10 X 3 = 30 marks

- 6) Structure and functions of Lungs.
- 7) Name any three Endocrine glands.
- 8) Levels of Prevention.
- 9) Disease Eradication.
- 10) Functions of the Skin.
- 11) Positive Health.
- 12) Functions of Human Skeleton.
- 13) Define Health.
- 14) Functions of the Liver.
- 15) Individual responsibility towards Health.

Subject: Paper I

Q P CODE: 5112

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Role of Family in Health and Disease.
- 2) Write on Doctor – Patient relationship
- 3) Role of Cultural Factors in Health and Disease.
- 4) Drug Addiction.
- 5) Consumer Protection Act.

II. Short answers

10 X 3 = 30 marks

- 6) Anthropology.
- 7) Field Study.
- 8) Customs.
- 9) Urban Society.
- 10) Broken family
- 11) Standard of Living.
- 12) Unmarried Women..
- 13) Personal Hygiene.
- 14) Care of Dependent Adults.
- 15) Food Habits.

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ANNUAL EXAMINATION AUGUST - 2018

II Diploma in Medical Imaging Technology(RS2)

GENERAL INSTRUCTIONS:

i) The question paper has two parts A and B. Both the parts are compulsory.

ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Time: 1.30 HRS

Max Marks:50

Subject: Anatomy

Q P CODE: 5123

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Elastic cartilage.
2. Stomach.
3. Hip Joint.
4. Parotid Gland.
5. Testis.

II. Short answers

10 X 3 = 30 marks

6. Lithotomy Position.
7. Skeletal Muscle.
8. Aponeurosis.
9. Deltoid Muscle.
10. Name the bones forming Knee Joint.
11. Ribosomes.
12. X – Rays.
13. Name the bones forming Skull.
14. Name chambers of Heart.
15. Mention the Hormones secreted by Pituitary Gland.

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ANNUAL EXAMINATION AUGUST - 2018

II Diploma in Operation Theatre Technology (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Biochemistry

Q P CODE: 5133

Subject: Biochemistry

Q P CODE: 5133

I Short notes (Answer any TWO question)

(5x2=10)

1. Metabolic acidosis
2. Renal function test
3. Isoenzymes

II .Short answers

(10 x 3=30)

4. pH
5. water soluble vitamins
6. Glomerular Function rate GFR
7. Factors affecting enzyme action
8. List three electrolytes with normal serum values
9. Transamination
10. Test for bile salts
11. Liver enzymes of Diagnostic importance
12. HDL High Density Lipoprotein
13. DNA

Subject: Pharmacology

Q P CODE: 5134

I Short notes (Answer any three question)

(5x3=15)

1. Define chemoprophylaxis. Mention 3 drugs and their indication for chemoprophylaxis
2. Inhalational anaesthetics. Add a note on halothane uses and adverse effects.
3. Classify Fluroquinolones and mention their indications.
4. Anaphylactic shock management

II .Short answers

(3x5=15)

5. Mention three ototoxic amino glycosides.
6. Adverse effects of Diazepam.
7. Plant sources of drug.
8. Uses of metaclopramide.
9. Define hypertensive emergency and mention 3 drugs used.

Subject: Microbiology

Q P CODE: 5135

I Short notes (Answer any three question)

(5x3=15)

1. Louis Pasteur
2. Autoclave
3. Type 1 hypersensitivity
4. Laboratory diagnosis of HIV

II .Short answers

(3x5=15)

5. Incineration
6. Name gaseous disinfectants
7. Types of hospital acquired infections
8. Prophylaxis for tetanus
9. Glutaraldehyde

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

II Diploma in Medical Records Technology(RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

i) The question paper has two parts A and B. Both the parts are compulsory.

ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5143

I. Short notes, answer any TWO questions.

2 X 5 = 10 marks

1. Synovial Joints.
2. Lung.
3. Morphology of hHearty / Diagram.

II. Short answers

10 X 3 = 30 marks

4. Functions of Epithelium.
5. Hormones Secreted by Thyroid Gland.
6. Name ventricles of Brain.
7. Sesamoid Bones.
8. Types of Neurons.
9. Openings in Diaphragm.
10. Draw and label diagram of Histology of Skin.
11. Types of long bones.
12. Branches of Aorta.
13. Functions of Gall – Bladder.

Subject: General Physiology

Q P CODE: 5144

I. Short notes, answer any THREE questions.

3 X 5 = 15 marks

1. Hypothalamic hormones and their functions
2. Define CPR
3. Indications and contraindications of blood transfusion
4. What are the stages of Shock

II. Short answers

5 X 3 = 15 marks

5. Draw a neat diagram of ECG showing different waves and intervals
6. Define apnea, dyspnea and tachypnea
7. Define GFR and give its normal value
8. Audiometry
9. Functions of skin

Subject: Pathology & Micro.

Q P CODE: 5145

I. Short notes, answer any THREE questions.

3 X 5 = 15 marks

1. Define thrombosis and write in detail about its stages.
2. Define metastasis and add a note on routes of spread with examples.
3. Discuss in detail about protein energy malnutrition.
4. Discuss in detail about osteoarthritis.

II. Short answers

5 X 3 = 15 marks

5. Pneumonia
6. Sinusitis
7. Hydronephrosis
8. Barret's oesophagus
9. Cirrhosis

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

II DIPLOMA IN DIALYSIS TECHNOLOGY(RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Biochemistry

Q P CODE: 5153

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What are the factors affecting enzyme activity.
2. Describe respiratory regulation of pH. Add a note on respiratory acidosis and respiratory alkalosis.
3. Classify carbohydrates. Explain in detail about homopolysaccharides.
4. Write the sources, biochemical functions and deficiency disorders of vitamin – B1.
5. What are the methods of cholesterol estimation? Add a note on principle and procedure of cholesterol estimation by enzymatic method.

II. Short answers

10 X 3 = 30 marks

6. Define essential fatty acids. Name them.
7. Classify lipoproteins. How they are separated?
8. Name some organic and inorganic constituents of normal urine
9. Reference values of plasma proteins. How they are separated?
10. Define nucleosides and nucleotides with suitable example.
11. What is Fluorosis due to?
12. Describe the excretory and synthetic functions of liver.
13. What is creatinine clearance test?
14. How the quality of water is maintained in laboratory.
15. What are buffers? How buffer solution is prepared?

Subject: Microbiology

Q P CODE: 5154

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Hot air oven
2. Sterilization of operation theater (OT)
3. Bacterial Spore
4. Type I hypersensitivity
5. Universal precautions

II. Short answers

10 X 3 = 30 marks

6. Mention three contributions of Robert Koch
7. Mention three diseases caused by Streptococcus pyogenes
8. Koch's postulate
9. Mention three items sterilized by autoclave
10. Mention different routes of transmission of Hepatitis B virus
11. Name three different Gram positive cocci
12. Bacterial flagella
13. Mention different steps in Gram stain
14. Incineration
15. Hand hygiene

ANNUAL EXAMINATION AUGUST - 2018
II DIPLOMA IN OPHTHALMIC TECHNOLOGY(RS2)

Max Marks:100

I. The question paper has two parts A and B. Both the parts are compulsory.
II. Write neat diagrams wherever necessary, Handwriting should be legible.
Subject: Paper II **Q P CODE: 5163**

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

II DIPLOMA IN DENTAL MECHANICS(RS2)

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5172

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Muscles of Mastication
2. Tooth carving in wax and plaster
3. Muscles of facial expression
4. Morphology of crowns of Teeth
5. Movement of Temporo – Mandibular joint

II. Short answers

10 X 3 = 30 marks

6. Functions of Teeth
7. Parts of Temporo-Mandibular joint
8. Human dentition
9. Structure of Teeth
10. Steps of deglutition
11. Enamel
12. Branches of Facial Nerve
13. Occlusion
14. Mandibular Nerve
15. Facial artery

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

II DIPLOMA IN DENTAL HYGIENE(RS2)

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) **The question paper has two parts A and B. Both the parts are compulsory.**
- ii) **Write neat diagrams wherever necessary, Handwriting should be legible.**

Subject: General Pathology, Microbiology

Q P CODE: 5183

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is AIDS. Name tests done for detection of AIDS?
2. What is pneumonia? Write diagram of causative organisms.
3. What is gram stain? Name 3 diseases caused by gram +ve bacteria?
4. What is syphilis? Write clinical features of syphilis.
5. What are the various tests done in pathology lab?

II. Short answers

5 X 3 = 15 marks

6. Write 3 investigation done for TB-lung?
7. Name 3 fungal disease?
8. Name 3 parasitic disease?
9. What are the different types of leprosy?
10. What is AIDS?

Subject: Pharmacology

Q P CODE: 5184

I.Short notes(Answer any one question)

(1x6=6)

1. What are local anaesthetics? Discuss different dosage forms of Lignocaine.
2. Enumerate Glucocorticoids.Add a note on adverse effects of glucocorticoids.

II. Short answers

(3x3=9)

3. Define Pharmacopoeia. Give examples
4. How do you manage NSAID induced peptic ulcer?
5. Why is doxycycline contraindicated in children?

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

I-DPT(RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) **The question paper has two parts A and B. Both the parts are compulsory.**
- ii) **Write neat diagrams wherever necessary, Handwriting should be legible.**

Subject: Physiology

Q P CODE: 4193

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the functions of cerebellum
2. Composition and function of gastric juice
3. List different pulmonary volumes and capacities and give their normal values
4. Trace auditory pathway and add a note on types of deafness
5. Explain steps involved in Erythropoiesis

II. Short answers

10 X 3 = 30 marks

6. Define apnea and dyspnea
7. Difference between UMN and LMN
8. Define HR and BP. Give their normal values
9. Effect of chronic exercise on muscle strength
10. Osmosis
11. Hormones secreted from Anterior Pituitary gland
12. What is Menarche and Menopause
13. Properties of cardiac cycle
14. Functions of mitochondria
15. Non-Renal functions of kidney

Subject: Biochemistry

Q P CODE: 4194

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Classify enzyme inhibitors. Explain briefly about each class with one example.
2. Write sources, biochemical functions and deficiency manifestations of vitamin - D
3. Classify lipoproteins. Describe briefly about LDL and HDL.
4. What are plasma proteins? Write about biochemical functions, clinical importance disorders of albumin.
5. Classify amino acids based on nutritional importance and metabolic fate.

II. Short answers

10 X 3 = 30 marks

6. Write briefly about endoplasmic reticulum.
7. Classify proteins with examples.
8. Define anomers and epimers.
9. What is invert sugar?
10. Role of glucagon hormone on carbohydrate metabolism.
11. Define detoxification and its types.
12. Van Den Bergh test.
13. What is the biological value of carbohydrates, lipids and proteins?
14. Define clearance test.
15. Name some complex lipids.

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
Medical Laboratory Technology

QP CODE — 2104 (RS1)

Subject: Pathology

Time 3 Hrs.

Max. Marks: 90.

I. LONG ESSAY : ANSWER ANY TWO : (2x10=20)

1. What are the types-of blood smears? Name the stains used for peripheral smear staining. Describe any one staining procedure. (2+3+5)
2. How to prepare urine for microscopic examination. Write in detail on microscopic examination of urine. (5+5)
3. Write the steps of tissue processing. Write a note on Dehydration (6+4)

II. SHORT ESSAY : ANSWER ANY TEN: (10x5=50)

4. Principle and procedure of Benzidine for urine
5. Procedure of RBC counting
6. Draw and label white blood cells WBC seen in a normal peripheral smear
7. Procedure to measure specific gravity of urine
8. Methods and stages of ESR. Explain the procedure of ESR
9. Quality control in Hematology
10. Packed cell volume (PCV)
11. Decalcification in histopathology
12. Clearing agents used in tissue processing
13. Indication for 24 hrs urine sample and method of collection
14. Procedure of 10% formal saline preparation
15. Laboratory anticoagulants

III. SHORT Answers (10x2=20)

16. Draw and label two abnormal RBC
17. Draw and label two abnormal WBC
18. Name two tissue fixatives
19. Name the red cell indices.
20. Draw a reticulocyte. Mention, normal reticulocyte count
21. Impregnation in tissue processing
22. Advantages of Sahli's method of Hb estimation
23. Mention normal RBC & WBC count
24. Principle and procedure of Benedict's test
25. Name two buffers used in Hematology

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

HEALTH INSPECTOR
QP CODE — 2112(RS1)

Subject: Paper II

Time 3 Hrs.

Max. Marks: 90.

I. Long Essay — Answer any TWO.

2x10=20

1. Iron Deficiency Anemia and its prevention.
2. Mention disposal of solid waste. Write briefly about Bangalore method of composting.
3. Write life cycle of malaria parasite. How do you prevent its transmission?

II. Write short notes on any TEN

10x5=50

4. Fats and diseases
5. Air pollution and its prevention
6. Swimming pool sanitation
7. Water-borne diseases
8. Lathyrism
9. Sanitation barrier.
10. Sanitary well
11. Dietary goals
12. Ascariasis
13. Overcrowding
14. Integrated Vector control
15. Effects of heat

III. Write short answers.

10x2 =20

16. Food adulteration
17. Vitamin A prophylaxis
18. Scurvy
19. Residual chlorine
20. Sources of water
21. Mid-day meal programme
22. Food fortification
23. Food-borne infections
24. Effect of noise pollution
25. Pellagra.

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

Medical X-Ray Technology

QP CODE – 2123(RS1)

Subject: Physiology

Time : 1. ½ Hrs

Max marks: 45

I. Long essay - Answer any one.

1X10=10

- 1) Write the composition and functions of blood.
- 2) Describe composition, functions and regulation of secretion of gastric juice.

II. Short essay - Answer any five

5X5=25

- 3) What is anemia? Mention the types of anemia.
- 4) Hypoxia.
- 5) Oxygen transport.
- 6) Gastrointestinal hormones.
- 7) Cardiac output.
- 8) Functions of skin.
- 9) Abnormal constituents of urine.

III. Short Answers

5X2=10

- 10) Normal values of
 - 1) bleeding time.
 - 2) Clotting time.
- 11) Name any two family planning methods.
- 12) Normal values of
 - 1) tidal volume.
 - 2) Vital capacity.
- 13) Name any two plasma proteins.
- 14) Name hormones of pancreas.

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
OT TECHNOLOGY (RS1)

Time 3 Hrs.

Max. Marks: 90.

SECTION – A Anatomy (Write in separate answer book) QP CODE – 2135

I. LONG ESSAY ANSWER ANY ONE

1 x 10 = 10

1. Name tissues of body. Describe Muscular tissue
2. Name the parts of respiratory system. Describe Left lung in details

II. WRITE SHORT NOTES ON ANY FIVE

5 x 5 = 25

3. Suprarenal gland
4. Spleen
5. Humerus
6. Extra Ocular Muscles
7. Spinal Cord
8. Kidney

III. WRITE SHORT ANSWERS

5 x 2 = 10

9. Name the Carpal Bones
10. Name the Salivary glands
11. Name the Parts of Fallopian tube
12. Parts of Vertebra
13. Name two cranial nerves

SECTION – B, Physiology (Write in separate answer book) QP CODE – 2136

I. LONG ESSAY - ANSWER ANY ONE

1 x 10 = 10

- 1) Name the clotting factors and describe the process of coagulation of blood.
- 2) Name the hormones of anterior pituitary gland and describe the functions of growth hormone.

II. WRITE SHORT NOTES ON ANY FIVE

5 x 5 = 25

- 3) Anticoagulant
- 4) Pressure and volume changes during cardiac cycle.
- 5) Hypoxia
- 6) Draw neat labelled diagram of nephron
- 7) Compositions and functions of gastric juice
- 8) Follicular phase of menstrual cycle
- 9) Functions of cerebral cortex

III. WRITE SHORT ANSWERS

5 x 2 = 10

- 10) Write two functions of plasma proteins
- 11) Define Pulse
- 12) What is Apnoea
- 13) Write classification of muscles
- 14) Write two functions of CSF

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
MEDICAL RECORD TECHNOLOGY
Subject: Hospital Statistics & Biostatistics
QP CODE – 2145(RS1)

Time 3 Hrs.

Max. Marks: 90.

I. Long Essays.

4x10=40

- 1) Explain Mean(AM), Median and Mode with its merits and demerits
- 2) Define Biostatistics? Write down its uses in medical science
- 3) Define sampling and write briefly on various sampling methods?
- 4) Explain different measures of Mortality?

II. Write briefly on any TEN.

10x4=40

- 5) Define quantitative variable with example
- 6) Standard deviation
- 7) Bar Diagram
- 8) Define Classification and write down its types with example
- 9) Mean deviation
- 10) Population and its types with example
- 11) Properties of Normal distribution
- 12) Crude birth rate and General fertility rate.
- 13) What are the outpatient statistical data collect in hospital.
- 14) Advantages of graphical presentation of data
- 15) General format of good table

III. Write briefly on any Five.

5x2=10

- 16) Range
- 17) Bar chart
- 18) Sex ratio
- 19) Bed occupancy rate
- 20) Sample
- 21) Average Length of stay

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
DIALYSIS TECHNOLOGY (RS1)

Time 3 Hrs.

Max. Marks: 90.

SECTION – A Anatomy (Write in separate answer book) QP CODE – 2155

I. LONG ESSAY— ANSWER ANY ONE 1 x 10 = 10

1. Describe the blood supply of heart (arteries & veins)
2. Name the parts of central nervous system. Describe spinal cord in detail

II. WRITE SHORT NOTES ON ANY FIVE 5 x 5 = 25

3. Trachea
4. Great saphenous vein
5. Labeled diagram of histology of transverse section (TS) of compact bone
6. Uterus
7. Kidney
8. Pancreas

III. WRITE SHORT ANSWERS 5 x 2 = 10

9. Name 2 muscles of upper limb,
10. Name 2 bones of lower limb
11. Name the parts of testis
12. Name the layers of skin
13. Name the ventricles in the brain

SECTION – B Physiology (Write in separate answer book) QP CODE – 2156

I. Long essay - Answer any one. 1X10 =10

- 1) Classify the types of WBC's and discuss the functions of different types of WBC's.
- 2) Describe the steps involved in urine formation.

II. Short essay - Answer any five 5X5=25

- 3) Anticoagulants
- 4) Conducting system of heart
- 5) Artificial respiration
- 6) Composition and functions of bile
- 7) Spermatogenesis
- 8) Family planning methods
- 9) Synthesis and functions of thyroxin

III. Short Answers 5X2=10

- 10) Write two functions of skin
- 11) Myopia and its correction
- 12) Name two types of hypoxia
- 13) Give normal values of i) Stroke volume ii) Cardiac output
- 14) Basis for pregnancy test

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

DENTAL HYGIENE (RS1)

Time : 1.1/2 Hrs.

Max. Marks : 45

Section- A, General Biochemistry (Write in separate answer book)

QP code - 2185

I. Long Question - Answer any ONE

1 x 10 = 10

1. Define carbohydrates. Classify them suitable examples. Add a note on its functions of carbohydrates in our body. (2+5+3=10)
2. Sources, Recommended dietary allowances (RDA), Biochemical functions and deficiency manifestations of Vitamin D. (2+2+4+2=10)

II. Write short notes on any THREE

3x5 = 15

3. Define enzymes and classify them with examples.
4. Functions of Proteins.
5. Composition of saliva
6. Give two examples each for steroid and protein Hormones.

Section- B, Radiology (Write in separate answer book)

QP code - 2186

I. Write short notes:

4x5 = 20

1. Paralleling technique.
2. Orthopantomography.
3. Occlusal radiograph.
4. Radiation hazards and protection against it

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

III D.P.T- Disability Evaluation & Community Physiotherapy

QP CODE – 3203 (RS1)

Time: 2 hrs

Max. Marks: 65

I. Long Essay - Answer any FOUR

4 X 10 = 40

- 1) Write different types of neurological deficits and explain any one in detail.
- 2) Definition of Magneto-therapy- Aim and principles of treatment.
- 3) Discuss the prevention and management of congenital contractures and deformities.
- 4) Disability evaluation — Role of physiotherapy.
- 5) Evaluation tools to identify disabilities.

II. Write short notes on any FIVE

5 X 5 = 25

- 6) Cock-up splint.
- 7) Activities of Daily Living (ADL) training.
- 8) Speech therapy.
- 9) Post natal physiotherapy.
- 10) Hip, Knee and Ankle Foot Orthosis (HKAFO)
- 11) Social education for disability.

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

Medical Laboratory Technology (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Pathology

Q P CODE: 5105

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write in detail about collection, Processing and physical examination of stool.
2. Physical examination of urine .
3. Name Romonosky stains & write in detail about procedure of staining by Leishman stain.
4. Enumerate Instruments & Equipments used in hematology laboratory.
5. Mention methods of hemoglobin estimation, write merits & demerits of Drabkins method along with

II. Short answers

10 X 3 = 30 marks

6. Methods of preservation of urine.
7. Automation in blood cell counts.
8. Blood cell indices.
9. Describe methods of reticulocyte staining .
10. Packed cell volume.
11. Various reducing substances in stool.
12. Leishman stain preparation.
13. Write Principle of Benedicts test.
14. Name the crystals and casts in urine
15. Urine analysis by dip sticks.

Subject: Pathology

Q P CODE: 5106

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Fixatives used in Cytology.
2. Describe the collection, Preparation and staining sputum sincere.
3. Grossing in histopathology.
4. What is an ideal fixative.
5. Describe the collection & physical examination of semen..

II. Short answers

10 X 3 = 30 marks

6. Physical examination of CSF.
7. Write a neat diagram of normal sperm.
8. Preservation & transport of body fluids.
9. Stains used in cytopathology.
10. Barr body demonstration.
11. Equipments used in histopathology.
12. Advantages & disadvantages of formalin.
13. Hematoxylin preparation & H & E staining.
14. End point decalcification.
15. Master register in histopathology.

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

HEALTH INSPECTOR (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) **The question paper has two parts A and B. Both the parts are compulsory.**
- ii) **Write neat diagrams wherever necessary, Handwriting should be legible.**

Subject: Paper II

Q P CODE: 5113

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Safe and Wholesome water
- 2) Global warming
- 3) Sanitation Barrier
- 4) Effects of Noise Pollution
- 5) Water – related Diseases

II. Short answers

10 X 3 = 30 marks

- 6) Uses of water
- 7) Chlorination of water
- 8) Sewage
- 9) Sulabh Shauchalaya
- 10) Control of Air pollution
- 11) Composting
- 12) Rural Housing
- 13) Sling Psychrometer- one use
- 14) Effects of Heat Stress – any three
- 15).Define Solid waste

Subject: Paper II

Q P CODE: 5114

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Discuss in detail Mosquito Control measures
- 2) Life cycle of Housefly
- 3) Habits and Control of Sandfly
- 4) Define Arthropod borne diseases and different Modes of Transmission
- 5) Prevention and Control of Amoebiasis

II. Short answers

10 X 3 = 30 marks

- 6) Sites and Lesions of Scabies
- 7) Describe Rat Flea
- 8) Fly papers
- 9) Modes of Transmission of Lice
- 10) Mass Treatment
- 11) Mention any three Mosquito borne diseases
- 12) Protection against Mosquito bites
- 13) Health Education in Hook worm infection
- 14) Modes of Transmission of Soil transmitted infections
- 15) Mode of spread of Scabies

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

Medical Imaging Technology (RS2)

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Time: 1.30 HRS

Subject: Physiology

Max Marks:50

Q P CODE: 5124

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Lung Compliance
2. Renal regulation of Acid Base Balance
3. Conducting system of the Heart
4. Erythropoiesis
5. Composition and functions of Saliva

II. Short answers

10 X 3 = 30 marks

6. Diffusion
7. Name all the muscles of Ventilation
8. Contraindications of Blood transfusion
9. Types of Neuroglial cells
10. Effects of radiation on bone
11. Differences between skeletal and smooth muscles
12. Cryptorchidism
13. Define Pulse and BP. Give their normal values
14. Non-renal functions of Kidney
15. Name all Hypothalamic hormones

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

Operation Theatre Technology (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Anatomy

Q P CODE: 5136

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Write definition and classification of joints
2. Describe the anatomy of tongue
3. Describe the anatomy of breast
4. Describe the arteries of upper extremity
5. Describe the mandible bone

II. Short answers

10 X 3 = 30 marks

6. Name the muscles of thigh
7. Name the muscles in neck
8. Name the arteries in lower extremity
9. Name any 3 muscles attached to scapula
10. Name the muscles supplied by radial nerve
11. Name the nerve supply of skin of foot
12. Name layers of eyeball
13. Name the muscles of anterior abdominal wall
14. Classify connective tissue with examples
15. Name the contents of femoral triangle

Subject: Physiology

Q P CODE: 5137

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Functions of blood
2. Explain Landsteiner's law. List indication of blood transfusion
3. Draw a neat labeled diagram of lung volume and capacities
4. Explain ratification respiration
5. Add a note on cardiac cycle

II. Short answers

10 X 3 = 30 marks

6. List the blood indices
7. Name types of WBC's
8. Anticoagulants. Write normal value of BT & CT
9. List the Cellular organelles
10. Define anemia. Normal value of HB content
11. Define ESR. List the methods of estimation of ESR
12. List the hormones of adrenal gland
13. Muscle of inspiration. Give normal value of tidal volume
14. Normal value of platelet count and its function
15. List the plasma protein

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

Medical Records Technology (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Hospital and Biostatistics

Q P CODE: 5146

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Calculate Range, Mean deviation and Standard deviation of 22,24,18,36,27,42,28 .
2. Write down merits and demerits of sampling?
3. Explain Mean and write down its merits and demerits.
4. Explain Pearson's coefficient of correlation
5. Define Classification and write down its types with example

II. Short answers

10 X 3 = 30 marks

6. Define qualitative data with example
7. Define variable with example
8. Advantage of Primary data
9. General format of table
10. Median and Mode
11. Range and Quartile deviation
12. Histogram
13. Simple random sampling
14. Probability
15. Sample and Population

Subject: Hospital and Biostatistics

Q P CODE: 5147

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Explain civil registration system.
2. Define Morbidity and explain two indicators
3. Define Mortality and name the different types of mortality rates.
4. Crude birth rate (CBR) and general fertility rate (GFR)
5. Define Hospital statistics and write down the uses of hospital statistics.

II. Short answers

10 X 3 = 30 marks

6. Define Admission and Discharge.
7. Infant mortality rate
8. In a town with a mid-year population in the reproductive age group of 170,000, there were 1,100 live births in a given year. Calculate general fertility rate.
9. Caesarean section rate
10. Bed occupancy rate
11. Bed turnover ratio
12. Anaesthesia death rate
13. Net death rate
14. Average length of stay
15. Maternal mortality rate

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

DIALYSIS TECHNOLOGY (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) **The question paper has two parts A and B. Both the parts are compulsory.**
- ii) **Write neat diagrams wherever necessary, Handwriting should be legible.**

Subject: Anatomy

Q P CODE: 5155

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Spleen.
2. Heart.
3. Liver.
4. Testis.
5. Shoulder Joint.

II. Short answers

10 X 3 = 30 marks

6. Fascia.
7. Functions of Skin.
8. Hyaline Cartilage.
9. Lymph node.
10. Functions of Pancreas.
11. Functions of Salivary Glands.
12. Name Three Types of Epithelia.
13. Palatine Tonsil.
14. Name the Hormones secreted by Pituitary gland.
15. Name Carpal Bones.

Subject: Physiology

Q P CODE: 5156

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What is Renal Blood Flow? Give its normal value and methods of measurement of RBF.
2. Define ECG. Explain how to record ECG using 12 lead electrode system
3. Synthesis and actions of Insulin. What is Diabetes Mellitus?
4. Indications and contraindications of blood transfusion
5. Different mechanisms of transport across cell membrane

II. Short answers

10 X 3 = 30 marks

6. Stem cells
7. Methods to measure ICF
8. Platelet functions
9. Normal value of Hemoglobin and its functions
10. Define Systolic BP and Diastolic BP. Give their normal values
11. SAN
12. Renal clearance
13. Draw neat labeled diagram of nephron
14. Actions of calcitonin
15. ADH

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ANNUAL EXAMINATION AUGUST - 2018

DENTAL HYGIENE (RS2)

Time: 1.30 HRS

Max Marks:50

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: General Biochemistry

Q P CODE: 5185

I. Short notes(Answer any TWO question) (2x5=10)

1. Formation of creatinine
2. Classify carbohydrates with examples
3. Isoenzymes

II. Short answers (5x3=15)

4. LDL cholesterol
5. Disaccharides
6. DNA
7. Factors affecting enzyme action
8. Normal serum values of minerals

SECTION —B RADIOLOGY (WRITE IN SEPARATE ANSWER BOOKS)

QP CODE-5186

I. Long Essay 5 Marksx2=10 Marks

1. Name various types of Dental Radiographs. Write in detail about Bite wing radiographs.
2. Write in detail about radiation hazards and protection against radiation.

II Write Short notes 3Marks X5=15 Marks

3. Bisecting angle technique.
4. Developing and fixing solution.
5. Occlusal radiographs
6. Periapical X ray.
7. Orthopantomography.

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ANNUAL EXAMINATION AUGUST - 2018

I-DPT (RS2)

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Biomechanics

Q P CODE: 4195

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Explain in detail closed kinematics and open kinematic chain.
2. Describe the movement analysis of activity SIT TO STAND from a chair.
3. Ramp and fast movement.
4. Explain with diagram Stress strain curve during tendon rupture.
5. Define levers. Explain its types and its mechanical advantages.

II. Short answers

10 X 3 = 30 marks

6. Elasticity.
7. Concurrent force.
8. Types of equilibrium.
9. Properties of spring and use in physiotherapy.
10. Momentum.
11. Action and reaction.
12. Work and power.
13. Hooks law.
14. Friction.
15. Apply first and second law in elbow flexion.

Subject: Biomechanics

Q P CODE: 4196

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Describe the bio mechanics of temporomandibular joint.
2. Explain the biomechanics of elbow complex.
3. What is gait? Explain determinant of gait.
4. Explain prehensile grip.
5. Explain scapula humeral rhythm.

II. Short answers

10 X 3 = 30 marks

6. Explain crutch and its parts with diagrams.
7. Knee stability.
8. KAFO
9. AFO
10. Gait cycle.
11. Cylindrical grip.
12. Shoulder wheel.
13. Shoulder ladder.
14. Suspension apparatus.
15. Three jaw chuck grip.

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
Medical Laboratory Technology

QP CODE — 3103 (RS1)

Subject: Microbiology

Time: 3 Hours

Max. Marks: 90

I. Long essay-Answer any two

2*10=20

1. Write about pathogenesis and lab diagnosis of Typhoid fever.
2. Name organisms causing meningitis. Add a note on lab diagnosis of meningitis.
3. Classify Hypersensitivity. Add a note on Type IV Hypersensitivity.

II. Write short notes on any ten

10*5=50

4. Active immunity.
5. Cryptococcus.
6. HIV.
7. ELISA Test.
8. Life cycle of *Ascaris lumbricoides*.
9. Gonorrhea.
10. Morphology and lab diagnosis of Cholera.
11. RA test.
12. Nosocomial infections.
13. Bacterial growth curve.
14. C-Reactive Protein (CRP) Test.
15. Laboratory diagnosis of *Pseudomonas*.

III. Write short answers

2*10 = 20

16. Antigen.
17. Preparation of antibiotic disc
18. Diseases caused by staphylococci.
19. Selective media.
20. Agglutination test.
21. Uses of chocolate agar.
22. Name two spore bearing organisms.
23. Name two Dermatophytes.
24. Two examples for Type I Hypersensitivity.
25. Name two laboratory animals.

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
HEALTH INSPECTOR
QP CODE — 3113(RS1)
Subject: Paper III

Time 3 Hrs.

Max. Marks: 90

I. Long Essay — Answer any TWO

2x10=20.

1. Structure and function of World Health Organization (WHO)
2. What is pneumoconiosis? How to prevent it?
3. Structure and functions of Primary Health Center.

II. Write Short notes on any TEN.

10x5=50.

4. Indian Red Cross
5. Anganwadi worker
6. Census
7. Planning cycle
8. Voluntary Health Agencies contribution to health
9. Panchayath Raj Institutions.
10. Major Health Problems of India
11. Bhore Committee Report
12. Enlist source of Health Information
13. Occupational cancers
14. Lead poisoning
15. Ford foundation

III. Write Short Answers.

10x2=20

16. Resources
17. Enlist 2 WHO Notifiable Diseases.
18. Village Health learn
19. Levels of health care with sample
20. World Health Day
21. Occupational Dermatitis
22. Name 2 hazards of radiation exposure
23. Quarantine
24. Hospital records.
25. Food and Agriculture Organization (FAO)

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ANNUAL EXAMINATION AUGUST - 2018

II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN

Medical X-Ray Technology

QP CODE — 3123(RS1)

Subject: RADIOGRAPHY INCLUDING NEWER IMAGING TECHNOLOGY R — III

Time: 3 hrs

Max. Marks: 90

I. LONG ESSAY — ANSWER ANY TWO

2 x 10 = 20

- 1) Explain principle of CT? Describe about contrasts used in CT?
- 2) Describe principles of MRI. Explain about different coils used in MRI?
- 3) Explain fluoroscopy and image intensifiers?

II. WRITE SHORT NOTES ON ANY TEN

10 x 5 = 50

- 4) Soft tissue radiography.
- 5) Myelography.
- 6) Barium enema.
- 7) Cholecystography.
- 8) Body section radiography.
- 9) Zeropradiography.
- 10) Cine angiography.
- 11) Mammography.
- 12) Different generations of CT.
- 13) Filter.
- 14) Bronchography.
- 15) Foreign body localization.

III. WRITE SHORT ANSWERS

10 x 2 = 20

- 16) As Low As Reasonably Achievable (ALARA).
- 17) Dicom software.
- 18) View box.
- 19) Contrast reaction.
- 20) High-Resolution Computed Tomography (HRCT).
- 21) Hounsfield unit.
- 22) T-tube cholangiogram.
- 23) Digital subtraction angiography.
- 24) T1 and T2 weighted images.
- 25) Radiofrequency coils.

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ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
Medical Record Technology
Computer Sciences
QP CODE — 3143(RS1)

Time: 1.30 Hours.

Max. Marks: 40

I. LONG ESSAE -ANWER ANY ONE

1X10=10

1. Define networking and explain different types of networking
2. Draw a neat sketch of computer, label the parts and mention its function

II. WRITE SHORT NOTES ANY FOUR

4X5=20

3. Hospital management software in Medical Records Department
4. Computer viruses.
5. Advantages and Disadvantages of computers
6. External storage devices
7. Backup data

III. WRITE SHORT ANSWERS

5X2=10

8. PPT
9. Scanner
10. Laptop
11. E-mail
12. Types of Printers

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ANNUAL EXAMINATION AUGUST - 2018

**II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
DENTAL HYGIENE**

**Operating room Technique, Chair side Assts. & Dental Materials,
Ethics & Jurisprudence
QP CODE - 3183(RS1)**

Time: 1 '1/2 hrs

Max Marks: 45

I. Long essay

1x10 =10

1. Describe various specialities in dentistry.

II. Write short notes

5x5 = 25

2. Describe various specification in dentistry.
3. Billing and accounting
4. Appointment and recall system
5. Charting and recording cases
6. Sterilization and care of dental instruments

III. Write short answers

2x5 =10

7. Chairside assistance
8. Objectives and scope of dentistry
9. Supply and maintenance of dental material
10. Medico legal issues in dental practice
11. Code of ethics

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ANNUAL EXAMINATION AUGUST - 2018

II D.P.T- GENERAL MEDICINE INCLUDING CARDIOLOGY & NEUROLOGY

QP CODE – 3193(RS1)

Time: 3 hrs

Max. Marks: 90

I. Long Essay (Answer and FIVE)

5 X 12 = 60

- 1) Discuss the etiology, clinical features and management of lobar pneumonia.
- 2) Definition, etiology, clinical features and management of Hypertension.
- 3) Explain in detail about Stroke, etiology, clinical features, examination of conscious patient and conservative management.
- 4) What is Atherosclerosis? Explain its clinical features and management.
- 5) Define Chronic Bronchitis. Write its etiology, signs and symptoms, prognosis and clinical features.
- 6) Discuss etiology, clinical features, investigations and management of Typhoid fever.

II. Write short notes on any five

6X5=30

- 7) Atherosclerosis.
- 8) AIDS.
- 9) Obesity.
- 10) Amoebic dysentery.
- 11) Thrombosis and Embolism.
- 12) Epilepsy.
- 13) Ascites.

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
CERTIFICATE COURSE
BIOLOGY
QP CODE 1103(RS1)

Time: 1. ½ hrs

Max. Marks: 45

I. LONG ESSAY- ANSWER ANY ONE

1x10= 10

1. Draw a neat labeled diagram of the Respiratory system and explain mechanism of breathing.
2. Explain Watson and crick model of DNA with labeled structure.

II. WRITE SHORT NOTES ON ANY FIVE

5X5 = 25

3. Blood grouping and Rh typing
4. Placenta and its functions.
5. Describe AIDS, Write the common modes of infection and prevention.
6. Genetic finger printing
7. Differences between bone and cartilage
8. Write a note on Mitosis
9. Urine formation

III. WRITE SHORT ANSWERS

5x2=10

10. Functions of DNA
11. Name two diseases caused by viruses
12. Causes of cancer
13. Fertilization
14. Functions of Golgi complex

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ANNUAL EXAMINATION AUGUST - 2018

SUB: BIOLOGY (1ST YEAR DIPLOMA) OF ALL COURSES (RS2)

Time: 3.00

HRS Max Marks:100

GENERAL INSTRUCTIONS:

- i) This question paper has two parts A and B. Both the parts are compulsory**
- ii) Draw labelled diagrams wherever necessary. Unlabelled diagrams or illustrations do not attract any marks**

SECTION- A

Q P CODE: 4105

I Short Notes, Answer Any FOUR Questions.

4 X 5= 20

1. Write a note on Mitosis
2. Write a note on Endocrine glands & their functions.
3. Structure of Eye.
4. DNA finger printing
5. Nervous tissue

II. Short Answers.

10 X 3 = 30

6. Lysosomes
7. Autosomes & Allosomes
8. Write any three functions of placenta
9. Applications of Biotechnology
10. Functions of DNA
11. Structure of Nephron
12. Oxygen cylinder
13. Diseases caused by Bacteria.
14. Fallopian tube
15. Gene Therapy

SECTION- B

Q P CODE: 4106

I Short Notes, Answer Any FOUR Questions.

4 X 5= 20

1. ABO Blood groups and Rh typing
2. Structure of eukaryotic cells in animal
3. Draw a neat labelled diagram of Respiratory system
4. Describe AIDS, Write the common modes of infection and prevention.
5. Sex determination in human

II. Short Answers.

10 X 3 = 30

6. Name any three viral diseases
7. Functions of blood.
8. Mitochondria
9. Barr bodies
10. Functions of nucleic acid
11. Blood pressure
12. Causative organism & symptoms of gonorrhoea.
13. Sphygmomanometer.
14. List the different stages in the mitotic cell division.
15. Fertilization.

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
Medical Laboratory Technology

QP CODE — 2105

Subject: Microbiology

Time 3 Hrs.

Max. Marks: 90.

I. Long assay (answer any two)

2 x 10 = 20

1. Mention the different types of Microscopes. Write in detail about Phase Contrast Microscopy.
2. Enumerate different methods of sterilization. Write in detail about autoclave.
3. Describe the bacterial cell in detail.

II. Write short notes (any ten)

10 x 5 = 50

4. Urease Test
5. Bacterial cell wall
6. Robert Koch
7. Antibody
8. ZN Stain
9. Passive immunity
10. Fumigation
11. Preparation of Chocolate agar
12. Innate immunity
13. Immunoglobulins
14. Different inoculation methods on solid media
15. Hot Air Oven

III. Write short answers

10 x 2 = 20

16. Name two Citrate positive bacteria
17. Name two enrichment media
18. Name two indicator media
19. Name two routes of transmission of HIV
20. Name two stains
21. Name two gram positive cocci
22. Name two capsulated bacteria
23. Name two spore forming bacteria
24. Name two selective media.
25. Functions of flagella.

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ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN

HEALTH INSPECTOR

QP CODE — 2113

Subject: Paper III

Time 3 Hrs.

Max. Marks: 90.

I. Answer Any TWO.

2x10=20

1. Discuss cohort study in detail
2. Define cold chain. Discuss the cold chain equipments.
3. Mosquito borne diseases and its control

II. Short Notes on any TEN.

10x5=50.

4. Mention the uses of health information
5. Discuss the statistical averages
6. Sand fly
7. Natural history of disease
8. Define epidemiology. What are the tools of measurement in epidemiology
9. Classify carriers
10. National immunization schedule
11. Itch mite
12. Health advice to travelers
13. Measles vaccine
14. Spot map
15. Types of epidemic

III. Write Short Answers.

2x10=20.

16. Notification of diseases
17. Bar chart
18. Measures of dispersion
19. Primary health care
20. Give examples for insecticides
21. Define prevalence
22. Diseases transmitted by hard ticks
23. Give examples for zoonotic diseases
24. Case fatality rate
25. Epidemiological triad

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
I YEAR DIPLOMA IN / II YEAR CERTIFICATE COURSE IN
Medical X-Ray Technology

QP CODE — 2124
Subject: Pathology

Time : 1. ½ Hrs

Max marks: 45

I. LONG ESSAY: Answer any one:

(1x10=10)

1. Discuss the stage of healing of Fracture bone
2. What is emphysema? Discuss the types and morphology of emphysema

II. SHORT ESSAY: Answer any Five:

(5x5=25)

3. Acute osteomyelitis
4. Fibroadenoma breast
5. Myocardial infarction
6. What is gangrene. Discuss different types of gangrene
7. Obesity
8. Write the difference between benign & malignant tumors
9. What is cirrhosis? Write the classification of cirrhosis.

III. SHORT NOTES:

(5x2=10)

10. Vitamin C deficiencies
11. What is hyperplasia. Give two examples.
12. Write any two types of Embolism
13. Morphology of Gastric ulcer
14. Primary complex lung in tuberculosis.

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ANNUAL EXAMINATION AUGUST - 2018
D.P.T- PHYSIOTHERAPY IN MEDICAL CONDITIONS
QP CODE – 3204

Time: 3 hrs

Max. Marks: 90

I. Long Essay - Answer any FIVE

5 X 12 = 60

- 1) A 3 year old child with spastic cerebral palsy comes to you. Explain Physiotherapy (PT) management.
- 2) How do you treat a child in acute and convalescent stage of poliomyelitis?
- 3) Different therapeutic exercise and Proprioceptive Neuromuscular Facilitation (PNF) technique for different neuro muscular disorders.
- 4) Describe the role of Physiotherapist in Intensive Care Unit (ICU).
- 5) Physiotherapy management for Ankylosing spondylosis.
- 6) Discuss different types of Angina and Rehabilitation of the patients with CHD.

II. Write short notes on any FIVE

5 X 6 = 30

- 7) Electromyography (EMG) biofeedback.
- 8) Postural drainage.
- 9) Voluntary and Involuntary movements.
- 10) Erb's palsy.
- 11) Nerve conduction testing.
- 12) Claw hand.

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ANNUAL EXAMINATION AUGUST - 2018

Medical Laboratory Technology

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Subject: Microbiology

Q P CODE: 5107

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Anaerobic culture methods.
2. Gaseous disinfectants.
3. Fimbriae(Pili).
4. Enumerate different staining techniques; write about Gram's staining method.
5. Autoclave.

II. Short answers

10 X 3 = 30 marks

6. Mention three contributions of Louis Pasteur.
7. Koch's Postulates.
8. Acid fast stain.
9. Mention three examples of motile bacteria.
10. Negative staining method.
11. Mention three instruments sterilized by Hot air Oven.
12. Cold sterilization.
13. Mention three examples of liquid media.
14. Enrichment media.
15. Mention three inoculation methods on solid media.

Subject: Microbiology

Q P CODE: 5108

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Active immunity
2. Write the principle, types and uses of ELISA Test
3. Type I hypersensitivity
4. Preparation of Gram's stain
5. Agglutination reaction

II. Short answers

10 X 3 = 30 marks

6. Draw a neat labelled diagram of IgM
7. Classify immunity
8. Haptens
9. Name 3 methods of biomedical waste treatment
10. Name 3 Gram positive bacteria
11. Heterophile agglutination test
12. Define and enumerate different types of antibody
13. Mention the methods of sterilisation of: Inoculation loop and test tubes
14. Give examples of 3 buffers used in microbiology laboratory and mention one use of each
15. Pasteurisation

PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION AUGUST - 2018

HEALTH INSPECTOR

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) **The question paper has two parts A and B. Both the parts are compulsory.**
- ii) **Write neat diagrams wherever necessary, Handwriting should be legible.**

Subject: Paper III

Q P CODE: 5115

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Discuss the Direct Transmission-under Modes of Disease Transmission
- 2) Define an Epidemic and discuss the types of Epidemics
- 3) National Immunization Schedule
- 4) Modes of Intervention under Primary Prevention
- 5) Chemical Agents used in Disinfection

II. Short answers

10 X 3 = 30 marks

- 6) Incubation Period
- 7) Types of Carriers
- 8) Types of Immunity
- 9) Chain of Infection
- 10) Define Cold Chain
- 11) Prevalance of Disease
- 12) Vaccine Vial Monitor(VVM)
- 13) Adverse Effects of BCG Vaccination
- 14) Uses of Screening-any three
- 15) Measles Vaccine-Dosage and Route of Administration

Subject: Paper III

Q P CODE: 5116

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

- 1) Discuss the Sources and Deficiencies of Vitamin D. Add a note on Prevention of Vitamin D Deficiency
- 2) Define Demography. Write uses of Demography
- 3) Discuss the Community Nutrition Programmes
- 4) What are the different types of Health information System. Write a note on Census
- 5) Enumerate Milk borne Diseases. Discuss Pasteurization in detail

II. Short answers

10 X 3 = 30 marks

- 6) Parboiling
- 7) Meat inspection
- 8) Pie -Chart
- 9) Dietary fibres
- 10) Birth and Death Registry
- 11) Effects of Iodine deficiency
- 12) Micronutrients
- 13) Bar Charts
- 14) Balanced Diet
- 15) Nutritional problems in Public Health-any three

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ANNUAL EXAMINATION AUGUST - 2018

Medical Imaging Technology

GENERAL INSTRUCTIONS:

- i) The question paper has two parts A and B. Both the parts are compulsory.
- ii) Write neat diagrams wherever necessary, Handwriting should be legible.

Time: 1.30 HRS

Subject: Pathology

Max Marks:50

Q P CODE: 5125

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Tumours of Kidney
2. Types of Gall stones and their causes.
3. Breast Carcinoma
4. Tuberculosis of Bone
5. Healing of fracture

II. Short answers

10 X 3 = 30 marks

6. Hyperplasia
7. Define metaplasia
8. Marasmus
9. Pneumonia
10. Renal calculi
11. Pericardial effusion
12. Carcinoma Cervix
13. Fatty liver
14. Types and examples of sequestrum
15. Goitre.

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ANNUAL EXAMINATION AUGUST - 2018

I-DPT

Time: 3.00 HRS

Max Marks:100

GENERAL INSTRUCTIONS:

- i) **The question paper has two parts A and B. Both the parts are compulsory.**
- ii) **Write neat diagrams wherever necessary, Handwriting should be legible.**

Subject: Psychology

Q P CODE: 4197

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. What are motives? How motives are classified?
2. What is emotion? Mention psychological changes during emotions & its types.
3. What is perception? Diagrammatically represent perceptual Organization?
4. States the process of memory. List the causes of forgetting.
5. What is thinking? Explain its types with example.

II. Short answers

10 X 3 = 30 marks

6. Delusions.
7. Introvert and extrovert.
8. Skills.
9. Creative thinking.
10. Hallucination.
11. Growth and development.
12. Methods to improve memory.
13. Hallucination.
14. Unconscious behavior.
15. Analytical reasoning.

Subject: Sociology

Q P CODE: 4198

I. Short notes, answer any FOUR questions.

4 X 5 = 20 marks

1. Explain how family controls social behavior and social relationship.
2. Nature and scope of sociology.
3. Problems of physically handicapped person.
4. What is sociology, discuss the role of physiotherapy.
5. Nature and scope of sociology.

II. Short answers

10 X 3 = 30 marks

6. Modern caste system.
7. Group behavior.
8. Unemployment.
9. Health institution.
10. Dowry system.
11. Medical sociology.
12. Unmarried and single mothers.
13. Geriatric problems.
14. Deviant behavior.
15. General features of social institution.

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ANNUAL EXAMINATION AUGUST - 2018
II YEAR DIPLOMA IN / III YEAR CERTIFICATE COURSE IN
MEDICAL RECORD TECHNOLOGY
Subject: Medical Surgical Coding
QP CODE – 3144

Time 1 Hrs.

Max. Marks: 20.

I. ANSWER ANY THREE QUESTIONS

3 x 5 = 15

1. Explain the hierarchical structure of I.C.D 10th Edition?
2. What are the principles & rules of coding?
3. Why do we need to code for external causes?
4. State the general principles of classification of diseases?

II. Expand the following Abbreviations.

1 X 5 = 5

5. URTI
6. SSG
7. ERG
8. AGN
9. LSCS

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ANNUAL EXAMINATION AUGUST - 2018
II DPT GENERAL SURGERY AND ORTHOPAEDICS

Q.P code -3194

Time 3 Hrs.

Max. Marks: 90.

I. Long Essay - Answer any TWO

2 X 15 = 30

- 1) What is ulcerative colitis? Write in detail about its management.
- 2) Classify Hernia. Write in detail the management of inguinal hernia.
- 3) Discuss the clinical features, management of appendicitis. Add a note on the treatment of appendicular mass.

II. Write short notes on any THREE

3X15=15

- 4) Incision and drainage
- 5) Hydrocele
- 6) Ganglion
- 7) Skin graft

III. Answer any TWO

2 X 15 = 30

- 8) Discuss the clinical features and management of Trochantric fracture of the femur.
- 9) Management of Mandibular fracture in Head injury.
- 10) Discuss the clinical features and management of Lumbar L4-L5 fracture with spinal cord injury.

IV. Write short notes on any THREE

3X5=15

- 11) Cervical rib.
- 12) Green Stick fracture.
- 13) Non-union of fracture.
- 14) Pathological fractures.

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
Common paper for all First Year Certificate courses
ENGLISH
QP CODE -1104

Time 1.1/2 Hrs.

Max. Marks: 45.

I. WRITE AN ESSAY ON ANY ONE OF THE FOLLOWING 15 X 1=15

- 1) Health is wealth
- 2) News Paper

II. ANSWER ANY ONE 10 X 1=10

3. Write an application new admission in health course.
4. Write a letter to your friend inviting for Sister's marriage.

III. WRITE THE OPPOSITE GENDER OF 5X1=5

- | | | | | |
|--------|----------|-----------|------------|---------|
| 5. Man | 6. Queen | 7. Sister | 8. Husband | 9. Lion |
|--------|----------|-----------|------------|---------|

IV. WRITE THE OPPOSITE OF THE FOLLOWING 5X1=5

- | | | | | |
|----------|------------|----------|-------------|-------------|
| 10. Hero | 11. Beauty | 12. Cold | 13. Healthy | 14. Believe |
|----------|------------|----------|-------------|-------------|

V. MAKE SENTENCES USING THE FOLLOWING 5X1=5

- 15) As soon as
- 16) Make sure
- 17) Looking into
- 18) Kindness
- 19) Break up

VI. FILL IN THE BLANKS 5X1=5

20. Uma is sister _____ Kishor
21. Temple is _____ the way to Mysore
22. He was _____ good student.
23. He is _____ Engineer
24. Rama is taller _____ Ravi

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ANNUAL EXAMINATION AUGUST - 2018

Subject: ENGLISH

FIRST YEAR DIPLOMA COURSES

Time: 3:00 Hrs.

Max Marks: 100

GENERAL INSTRUCTIONS:

- (i) The question paper has two parts A and B. Both the parts are compulsory.
- (ii) Write the correct question number as it appears on the question paper.

SECTION -A

QP CODE: 4107

I. Write an ESSAY on any one of the following in about 250 words.

15X1=15

- 1. Blood donation
- 2. Epidemic diseases

II. Use the following Idioms/Phrases in sentences of your own.

5X1=5

- 3. Piece of cake.
- 4. A hot potato.
- 5. Once in a blue moon.
- 6. Zip your lip.
- 7. Call back.

III. Change the following into indirect speech

5X1=5

- 8 "Take this man out", he ordered.
- 9. "What a huge hill it is!" the traveller said.
- 10. The officer said, "Some children's have been saved from the fire".
- 11. "How fast he drives the car!" She said.
- 12. Ramesh said, "Please lend me some books".

IV. Change the voice of the following.

5X1=5

- 13. My brother gave him many books
- 14. Sushma was learning typing.
- 15. I have warned you this time.
- 16. Bring a table.
- 17. Send him out.

V. Write the opposite of the following

5X1=5

- 18. Angry
- 19. Bitter
- 20. Master
- 21. Happy
- 22. Former.

VI. Fill in the blanks with the suitable prepositions.

5X1=5

- 23. We located the keythe door.
- 24. She drovethe store.
- 25. The car wentthe tunnel.
- 26. I got a packagea friend.
- 27. I have liked that song1999.

VII. Filling the blanks with articles.

5X1=5

- 28. She will come back inhour.
- 29. The helicopter landed onroof of a building.
- 30. Are you looking forshampoo?
- 31. I checkedmailbox again.
- 32. I was born intopoor family

VII. Give synonyms of the following.

5X1=5

- 33. Blank
- 34. Center
- 35. High
- 36. New
- 37. Old

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ANNUAL EXAMINATION AUGUST - 2018

SECTION —B

QP CODE: 4108

I. Answer any One (Letter Writing).

1X10=10

1. Write a letter to your Principal requesting to grant two days leave as you are going to Mysore for your brother's marriage.
2. Write a letter to your friend inviting him/her to your birthday.

II. Read the following passage carefully and answer the questions that follow. 5X2=10

(1) The art of academic writing is not easy to master. It is a formal skill, which requires precision and accuracy, and is perfected by continuous and dedicated practice. Academic writing is the skillful exposition and explanation of an argument, which the writer has carefully researched and developed over a sustained period of time. It is a time-consuming activity and demands patience and perseverance. But the joy of reading and sharing with others, one's succinctly composed piece of argument, is incomparable

(2) Before beginning to write, the writer must ask himself a few questions — Why am I writing? What is it that I intend to share with others? What purpose will my writing serve? Have I read enough about the topic or theme about which I am going to write? If one is hesitant to answer even one of the aforementioned questions, one better not write at all! Because academic writing is a serious activity — it makes one part of a shared community of readers and writers who wish to disseminate and learn from well-argued pieces of writing.

(3) The structure of an argumentative essay should take the form of — Introduction (which should be around ten percent of the entire essay), Body (it should constitute eighty percent of the piece) and the Conclusion (again, ten per cent of the essay). The introduction should function as the hook which draws the reader in and holds his attention, the body should include cogent and coherently linked paragraphs and the conclusion should re-state the argument and offer a substantial ending to the piece.

(A) On the basis of your reading of the above passage, answer the following questions:

- (3) What is academic writing? (1)
- (4) Academic writing is a skill which requires _____ and _____ (1)
- (5) Why is reading an important part of writing? (1)
- (6) What is this story is about? (1)
- (7) Why should one ask oneself the questions mentioned in the second Para? (2)
- (8) What are the components of the structure of an argumentative essay? (2)

(B) Find the words from the passage which mean the same as the following: (1X2=2)

- (9) Enough (Para 2)
- (10) Wish (Para 2)

III Write the correct medical term.

10X1=10

- 11). Pharmaco 12). Proct 13). Cardi 14). Uro 15). Viro 16) Gastro 17) Cyto
18) Pulmo 19) Toxi 20) Radi

IV. E-mail writing

1X5=5

21. Write an e-mail to your friends to attend the birthday party of your son on 12th June at 10'o clock in the hotel Amar.

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V.A. Fill in the blanks with appropriate articles and preposition given in bracket
(at, a, the ,at, of)

1X5=5

(22) There was.....party.....the club house. There were hundreds.....people
in that party. The party started.....12 p.m. We all enjoyed.....party.

VI. Re-arrange the Jumbled Segments to form a meaning sentence.

6X1=6

- 23. you/depend/1/ upon
- 24. mother/went/Ravi/his/with
- 25 once/comes/he/week/a
- 26. punish/shall/you/I
- 27. eat/in winter/ice-cream
- 28. buy/ a cow/he/wants/to

V11. Complete the following dialogue (situation based conversation):

4X1=4

- 29. Ravi : I am not feeling well. I cannot attend the exam.
- 30. Abhi you can take rest (expresses sympathy)
- 31. Abhi (offers help)
- 32. Ravi (expresses gratitude)
- 33. Abhi : I wish you speedy recovery. (takes leave)

PARAMEDICAL BOARD, BANGALORE
ANNUAL EXAMINATION AUGUST - 2018
II DPT PREVENTIVE AND SOCIAL MEDICINE

Q.P code -3195

Time 3 Hrs.

Max. Marks: 90.

I. Long Essay - Answer any TWO

2 X 15 = 30

1. Discuss the Determinants of Health in detail
2. Enumerate the Risk factors for Hypertension. Discuss the Preventive and Control measures
3. Discuss Planning Cycle

II. Write short notes on any THREE

3X10=30

4. Discuss the Investigation of an Epidemic
5. Describe the Epidemiology of Tuberculosis. Add a note on DOTS
6. Discuss UNICEF in detail
7. Define Pneumoconiosis. Enumerate the diseases under Pneumoconiosis. Discuss any One in detail with its Preventive and Control measures

III. Answer any SIX

6 X 5 = 30

8. National Mental Health Programme
9. Discuss School Health Programme in Detail
10. Global Warming and its Preventive measures
11. What is Case Control Study? Write its Advantages and Disadvantages
12. Uses of Growth Chart
13. Define Rehabilitation. What are the types of Rehabilitation? Add a note on Community Based Rehabilitation.
14. Causes of Noise Pollution and its Preventive and Control measures

PARAMEDICAL BOARD, BANGALORE
Annual Examination, August 2018
D.P.T-II – THERAPEUTIC EXERCISES
QP CODE- 3196

Time: 03 Hours

Max Marks: 90

I. Long Essay- Answer any TWO

2 X 15=30

1. Explain exercise therapy for stroke management.
2. Explain in detail the basic techniques of PNF.
3. What are the principles of Goniometry? Explain how do you measure the range of motion for knee joint?

II. Write Short notes on any THREE

3 X 10=30

- 4) Co-ordination exercise
- 5) Indication and contraindication of massage.
- 6) Principle indications and contraindications of postural drainage.
- 7) What are the aims and techniques of Exercise therapy? Mention briefly tests for Neuro-muscular efficiency.

III. Write short notes

6 X 5=30

- 8) Ergonomics correction for postural defect.
- 9) Irradiation.
- 10) Muscle responsible for running.
- 11) Movements of hip and muscles acting on it.
- 12) Muscle work in Squatting.
- 13) Suspension therapy.

PARAMEDICAL BOARD, BANGALORE
Annual Examination, August 2018
D.P.T-II – ELECTRO DIAGNOSIS & ELECTROTHERAPY
QP CODE- 3197

Time: 03 Hours

Max Marks: 90

I. Long Essay- Answer any TWO

2 X 15=30

- 1) Describe the types of nerve injuries and physiotherapy management of nerve palsy.
- 2) Describe the production of Ultraviolet rays using high pressure mercury vapour lamp. What are its indications and contraindications?
- 3) Define Interferential therapy (IFT). Describe its indication and hazards.

II. Write Short notes on any THREE

3 X 10=30

- 4) What are the three types of nerve injuries? How is nerve conduction velocity measured?
- 5) H-reflex and F-wave.
- 6) What are the Diagnostic uses of Galvanic current?
- 7) What is laser? Describe the therapeutic uses and dangers of laser.

III. Write short notes

6 X 5=30

- 8) Nerve conduction test
- 9) Electromyography
- 10) Therapeutic uses of Short Wave Diathermy
- 11) Indications and contraindications of Micro wave Diathermy
- 12) Hydrotherapy
- 13) Contraindication for TENS

PARAMEDICAL BOARD-BANGALORE
Annual Examination, August 2018
D.P.T-III – PHYSIOTHERAPY IN SURGICAL CONDITIONS
QP CODE-3205

Time: 03 Hours

Max Marks: 90

I. Long Essay-Answer any FIVE

5 X 10=50

- 1) What is Emphysema? Write in details about the etiology, types, clinical features, complications, principles of physiotherapy treatment.
- 2) Discuss in detail about Deep Vein Thrombosis (DVT).
- 3) Explain physiotherapy management for above knee amputation.
- 4) Write the common abdominal surgeries. Explain the pre-operative and post operative physiotherapy evaluation and management of common abdominal surgeries.
- 5) Define Thoracotomy. Write the position of incision, indications of surgery and types of operation and complications of pulmonary surgery.
- 6) ACL injury – etiology, clinical features, treatment and post-operative physiotherapy management.

II. Write short notes on any Eight

8 X 5=40

- 7) Colle's fracture.
- 8) Volkman's ischaemic contracture.
- 9) Dyskinesis.
- 10) Stump management.
- 11) Tendon grafting.
- 12) Buerger's disease
- 13) Stress incontinence.
- 14) PT management in Paediatric ICU.
- 15) Hemipelvectomy.

PARAMEDICAL BOARD-BANGALORE
Annual Examination, August 2018
D.P.T-III – DIET & NUTRITION
QP CODE-3206

Time: 03 Hours

Max Marks: 90

I. Long Essay-Answer any FIVE

5 X 12=60

- 1) What is balanced Diet? Suggest a balanced diet for a pregnant Heavy worker.
- 2) Define Hypertension. Plan a diet for a patient suffering from hypertension.
- 3) Explain the digestion and absorption of protein.
- 4) Suggest a diet plan for chronic renal failure.
- 5) Explain therapeutic diet. Write a diet plan for a patient suffering from fever.
- 6) Suggest a diet plan for a school going child.

II. Write short note on any Five

5 X 6=30

- 7) Food additives.
- 8) Diet for geriatric condition.
- 9) Diet for Peptic ulcer patient.
- 10) Pellagra.
- 11) Calorific value of food.
- 12) Role of diet in Nutritional anemia.

PARAMEDICAL BOARD-BANGALORE
Annual Examination, August 2018
D.P.T-III – MANAGEMENT CONCEPT IN PHYSIOTHERAPY
& RESEARCH METHODOLOGY
QP CODE-3207

Time: 03 Hours

Max Marks: 90

I. Long Essay-Answer any FOUR

4 X 15=60

- 1) Explain the role of motivation in Health care sector.
- 2) Name different styles of Leadership. Which style is best among them? Explain with examples.
- 3) Explain the hospital record maintenance fundamentals. How do they help in hospital management?
- 4) What is material management system? Explain in detail.
- 5) Define the term auditing. Describe the objective and role of auditing applicable to hospital.

II. Write short note on any Five

5 X 6=30

- 6) *Delegation and elements of delegation of authority.*
- 7) *Staff development.*
- 8) *Compensation.*
- 9) *Purchase procedure.*
- 10) *ABC and VED analysis.*
- 11) *Advantages of incentives.*

PARAMEDICAL BOARD-BANGALORE
Annual Examination, August 2018
D.P.T-III – COMMUNITY BASED REHABILITATION
QP CODE-3208

Time: 03 Hours

Max Marks: 90

I. Long Essay-Answer any FIVE

5 X 12=60

- 1) Rehabilitation of a Geriatric patient.
- 2) Discuss the role of Home exercises in CBR.
- 3) Rehabilitation for Mentally retarded patient in CBR.
- 4) What are social education and vocational training for disability in CBR?
- 5) Explain the role of various health care personnel required for an effective rehabilitation programme.
- 6) Enumerate various functional problems of Disability.

II. Write short note on any FIVE

5 X 6=30

- 7) *Field visit.*
- 8) *Orthotics for CBR patient.*
- 9) *Comprehensive rehabilitation.*
- 10) *Administration concept in organization.*
- 11) *Agencies involved in rehabilitation of physically handicapped.*
- 12) *Define ergonomics. Add a note on ergonomics for computer personnel.*
