

# **PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, May 2015**

## **II DPT – PHARMACOLOGY**

**QP CODE – 3192**

**Time: 3 hrs**

**Max. Marks: 90**

### **I. Long Essays – (Answer any FOUR)**

**4 x 15=60**

- 1) Classify anti-diabetic drugs. Write the mechanism of action, uses and adverse effects of metformin.
- 2) Enumerate the various penicillin preparations. Mention the therapeutic uses and adverse effects of Penicillin G.
- 3) Classify antihypertensive drugs. Write the uses and adverse effects of Thiazides.
- 4) Classify antiepileptic drugs. Write the mechanism of action, therapeutic uses and adverse effects of Phenytoin.
- 5) Classify non-steroidal anti-inflammatory drugs (NSAID). Discuss the mechanism of action, pharmacological actions, therapeutic uses and adverse reactions of aspirin.

### **II. Write short notes on any FOUR**

**4 x 5= 20**

- 6) Atropine
- 7) Pre-anaesthetic medication
- 8) Diazepam
- 9) Heparin
- 10) Intravenous fluids.

### **III. Write short answers**

**5 x 2 =10**

- 11) Mention two drugs which are nephrotoxic.
- 12) Mention two uses of calcium
- 13) Mention two plasma expanders.
- 14) Mention two disinfectants
- 15) Mention two skeletal muscle relaxants.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May- 2015**  
**II Year Diploma in Ophthalmic Technology/ III Year**  
**Certificate course in Ophthalmic Technology**  
**PAPER – II**  
**QP CODE - 3162**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Answer any two**

**2 x 10 = 20**

- 1) Define Eyebank and its functions.
- 2) Aims and Objectives of Vision 2020.
- 3) Name few Ocular emergencies and explain how you manage a case of Acute red eye.

**II. Write short notes on any ten**

**10 x 5 = 50**

- 4) How do you manage a case of Cataract in periphery ( Rural Area)
- 5) Health Education in Diabetes.
- 6) Rehabilitation of Blind
- 7) Disease Index.
- 8) Causes for Corneal blindness.
- 9) Preservation methods of donor cornea
- 10) Consent formats.
- 11) Name few causes of Childhood blindness. How do you prevent it.
- 12) Role of eye care in primary health unit.
- 13) ICD-10
- 14) Legal Blindness
- 15) Training of school teachers for school screening.

**III. Write short answers**

**10 x 2 =20**

- 16) Various routes of drug delivery into the eye.
- 17) Prophylaxis of Vitamin 'A' deficiency
- 18) District blindness control society.
- 19) Common causes of painless gradual loss of vision.
- 20) Bitot's Spot
- 21) Definition of Blindness.
- 22) Low visual aids ( Name two instruments)
- 23) Safe strategy.
- 24) Steps taken to screen for diabetic retinopathy.
- 25) Name two instruments required to examine posterior segment ( Fundus).

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May- 2015**  
**II Year Diploma in Medical Laboratory Technology/ III Year Certificate course**  
**in Medical Laboratory Technology**  
**PATHOLOGY QP CODE - 3102**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay (Answer any Two)**

**2 x 10 = 20 Marks**

1. What is CSF? Write physical examination and microscopic examination of CSF in pyogenic meningitis
2. Name the sites of Bone marrow aspiration and its indications. Write a note on Perl's stain procedure on bone marrow smear
3. Indication of Semen analysis. Write its normal physical and microscopic findings

**II. Short Essay on any Ten**

**10 x 5 = 50 Marks**

4. Special stains used in histopathology section, Explain the procedure of PAS stain
5. Merits and Demerits of Histokinette (automated tissue processor)
6. Microwave and its uses in histopathology
7. Osmotic fragility test
8. LE cell procedure, its principal and significance
9. Blood donor selection criteria
10. Transfusion reaction
11. Mention the methods of blood grouping. Add a note on tube method
12. Separation and usage of various components of Blood
13. Standard Operating Procedure (SOP) in a Phlebotomy room
14. Anticoagulants used in Blood bank and its proposition in different blood bags
15. What is decalcification? Mention different methods of decalcification

**III. Short Answers**

**10 x 2 = 20 Marks**

16. What is FDP and its importance
17. Colors of Blood Collection Tubes (Vacutainer) used in Coagulation and Hematology Lab
18. What is buffer solution and its uses
19. Sickling test
20. What is Kaiserling's Technique
21. Cell block preparation
22. Safety Precautions and Guidelines for good laboratory setup
23. Significance of Coombs test
24. Supravital stains
25. Bombay blood group

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**PARAMEDICAL BOARD , BANGALORE**  
**SUPPLEMENTARY EXAMINATION , MAY– 2015**

**II Year Diploma in Health Inspector / III Year Certificate course in Health Inspector**

**PAPER – II**

**QP CODE – 3112**

**Time : 3 hrs**

**Max. Marks : 90**

**I Long Essay \_ Answer any TWO**

**2 X 10 = 20**

1. Define health education. Discuss in detail various types of communication.
2. Describe the causes of maternal mortality in India. Add a note on its prevention
3. Define Family planning. Discuss in detail about terminal methods of contraception

**II Write short notes on any TEN**

**10 X 5 = 50**

- 4 Risk approach
- 5 Intra - Uterine Devices
- 6 Child health problems
- 7 Factors affecting fertility
- 8 Health problems of the aged people
- 9 Causes of Infant mortality rate
- 10 Low birth weight
- 11 School health appraisal
- 12 Child abuse
- 13 Barriers of communication
- 14 Demographic cycle
- 15 Baby friendly hospitals initiatives

**III Write short answers**

**10 X 2 = 20**

16. Copper T
  17. Internet
  18. Weaning
  19. Audio-visual aids
  20. Eligible couple
  21. Danger signals in intranatal care
  22. Mala-N
  23. Abortion
  24. Growth rate
  25. Post natal complications
- .....

# **PARAMEDICAL BOARD, BANGALORE**

**Supplementary examination, May- 2015**

**II Year Diploma in Medical X- Ray Technology/ III Year Certificate  
course in Medical X- Ray Technology**

**RADIOGRAPHY INCLUDING MEDICAL RECORDS, (N.S) R-II**

**QP CODE - 3122**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Describe in detail the procedure to be followed while acquiring radiographic films in medico-legal cases. Add a note on storage of MLC records.
- 2) Describe various contrast agents used in radiography. Add a note on management of adverse reaction to contrast administration.
- 3) Describe in detail about artifacts seen in radiography with a note on steps to prevent them.

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

**10 x 5 = 50**

- 4) Unsharpness
- 5) DICOM
- 6) TLD badges
- 7) Collimators
- 8) Towne's view
- 9) Silverless radiography
- 10) Latent image.
- 11) Developer Solution
- 12) Patient identification
- 13) Grids
- 14) High mA technique
- 15) Inverse square law.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Consent
- 17) Film Hangers.
- 18) Shoulder –axial view.
- 19) Stationary Anode tube
- 20) Barium enema
- 21) Lateral decubitus view.
- 22) Isotope
- 23) Mammography
- 24) Luminescence
- 25) Safe light.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Medical Records Technology/ III Year Certificate**  
**course in Medical Records Technology**  
**HOSPITAL ADMINISTRATION**  
**QP CODE - 3142**

**Time: 3 hrs**

**Max. Marks: 90**

**I. LONG ESSAY 2 x 10 = 20**

1. Define management. Add a note on Material management systems.
2. Classify health care wastes and write a note on their disposal.
3. Write role and functions of nursing services.

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

**10 X 5 = 50**

4. Management by objectives.
5. Input output analysis.
6. Medical audit.
7. Doctor patient relationship.
8. Planning cycle.
9. History of hospitals in India.
10. Delegation of power.
11. Hospital environment.
12. Organization of Purchase committee.
13. Ambulance services
14. Functions of house keeping
15. Role of Hospitals in Disaster management.

**III. SHORT NOTES**

**10 X 2 = 20**

16. Motivation.
17. Health team
18. Leadership qualities.
19. Enlist various Hospital committees.
20. Essential drugs.
21. Management of expired drugs in hospitals.
22. Cost benefit analysis
23. Rehabilitation.
24. Functions of Pharmacy.
25. Universal precaution

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May- 2015**  
**II Year Diploma in Dental Mechanics/ III Year**  
**Certificate course in Dental Mechanics**  
**PARTIAL DENTURES, ORTHODONTIA, MAXILLOFACIAL PROSTHESIS**  
**(N.S)**  
**QP CODE - 3172**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**I. LONG ESSAY**

**1 x 10 = 10**

- 1) Define Dental surveyor. Discuss the parts used and importance of dental surveyor.

**II. WRITE SHORT NOTES**

**5 x 5 = 25**

- 2) Direct retainers.
- 3) Connectors in fixed partial dentures
- 4) Principles of wire bending
- 5) Parts of a cast partial denture
- 6) Adams clasp

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 7) Pickling
- 8) Gingivally approaching clasp
- 9) Arbitrary blockout
- 10) Mention different die materials used
- 11) Centrifugal casting machine.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May- 2015**  
**II Year Diploma in Dental Hygiene / III Year Certificate course in**  
**Dental Hygiene**  
**DENTAL HEALTH EDUCATION, SOCIAL & PUBLIC HEALTH**  
**& PREVENTIVE DENTISTRY (N.S)**  
**QP CODE - 3182**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**I. Long essay**

**1 x 10 =10**

- 1) Describe various mechanical plaque control measures.

**II. Write short notes**

**5 x 5 =25**

- 2) Child care counseling  
3) Prevention of dental caries.  
4) Aims and Objectives of Dental Health Education  
5) Chemical Plaque control measures.  
6) Oral health in handicapped.

**III. Write short answers**

**5 x 2 = 10**

- 7) Gingival massage  
8) Water fluoridation.  
9) Oral irrigation devices.  
10) Tongue thrusting habit  
11) School dental camps.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in OT Technology/ III Year Certificate course in**  
**OT Technology**  
**OPERATIVE PROCEDURE (N.S)**  
**QP CODE - 3132**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Describe types of abdominal incisions. Discuss their uses.
- 2) Describe Pre-operative & Post-operative care of abdominal surgeries.
- 3) What is Cesarean section ? Discuss emergency LSCS.

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

**10 x 5 = 50**

- 4) Laproscopic Sterilization
- 5) Circumcision
- 6) TURP
- 7) LSCS
- 8) Appendicectomy
- 9) Laproscopic Procedures.
- 10) Vertebral column surgeries
- 11) Bronchoscopy
- 12) Diabetic foot care
- 13) Duodenal perforation
- 14) Tonsillectomy
- 15) Cast & Slab splint

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Excision Biopsy
- 17) Urinary catheter
- 18) Cautery
- 19) Sims Position
- 20) Foreign body nose
- 21) Foleys catheter
- 22) Indication for ICD
- 23) External fixator
- 24) Brachytherapy
- 25) Suction drain

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination. May-2015**  
**II Year Diploma in Dialysis Technology/ III Year**  
**Certificate course in Dialysis Technology**  
**RENAL REPLACEMENT THERAPY OTHER THAN HAEMODIALYSIS**  
**& PATIENT TEACHING (N.S)**  
**QP CODE - 3152**

**Time: 3 hrs**

**Max. Marks: 90**

**I. LONG ESSAYS - ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Describe in detail about pathogenesis, etiology, diagnosis and treatment of peritonitis in Peritoneal dialysis patients.
- 2) Describe types, indications and anticoagulation in CRRT
- 3) Describe in detail about indications, complications, anticoagulation and strategies to avoid complications in plasmapheresis.

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

**10 x 5 = 50**

- 4) Regional citrate anticoagulation.
- 5) SCUF.
- 6) Hemodiafiltration
- 7) Membrane Plasma separation.
- 8) Peritoneal equilibration test (PET)
- 9) Aminoacid based solutions.
- 10) Fresh frozen plasma.
- 11) Haemoperfusion.
- 12) Anatomy of peritoneal cavity
- 13) Sieving.
- 14) High and low transporters.
- 15) APD

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Two causes of flank pain in dialysis patients.
- 17) Two differential diagnosis of Uremic polyneuropathy.
- 18) Two antibiotics frequently used in peritonitis patients.
- 19) Two drugs used to treat ethylene glycol poisoning.
- 20) Normal pulse rate and blood pressure values.
- 21) Name two essential fatty acids.
- 22) Mention any two types of PD catheters.
- 23) Name two antifungal drugs
- 24) two causes of fluid over load in PD patients.
- 25) Two vaccines used in dialysis patients.

**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, May 2015**  
**Common paper for all I year Certificate Courses**  
**CHEMISTRY**  
**(OLD & NEW SCHEME)**  
**QP CODE 1102**

**Time: 1 ½ hrs**  
**Scheme)**

**Max. Marks: 45 (New**

**40 (Old Scheme)**

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

**1 x 10 = 10**

- 1) How nitric acid manufactured by Ostwald's process? Mention it's uses.
- 2) Explain the preparation of phenol from coal-tar. Mention its uses.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- 3) Properties of Alpha, beta, gama rays.
- 4) Applications of colloids in medicine and food.
- 5) Carbohydrate as a source of energy.
- 6) Properties and uses of Chlorine
- 7) Differences between DNA and RNA
- 8) Buffer solution
- 9) Merits and demerits of Arrhenius theory

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Normality and Molecular weight
- 11) Applications of Colloids
- 12) What is half period ?
- 13) Write the Haworth structure of maltose.
- 14) Enzymes.

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# PARAMEDICAL BOARD, BANGALORE

Supplementary Examination, May- 2015

FIRST DPT – PHYSIOLOGY AND BIOCHEMISTRY

**Note: Write section A & Section B in separate answer books**

**Time: 3 hrs**

**Max. Marks: 90**

**Section- A PHYSIOLOGY (Write in separate answer book)**

**QP CODE - 2192**

**I. Answer any THREE**

**3 x 10=30**

- 1) Name the clotting factors and describe in detail mechanisms of Clotting
- 2) Define Cardiac Cycle. Add a note on electrical events of cardiac cycle.
- 3) Name the muscles of respiration and describe briefly the mechanisms of ventilation.
- 4) Name the different types of blood groups and a note on ABO and RH systems. What is Cross matching.

**II. Write short notes on any five**

**5x 5 =25**

- |  |                            |
|--|----------------------------|
| 5) Hypoxia and types                   | 9) Functions of Cerebellum |
| 6) Pancreatic enzymes                  | 10) Errors of refraction   |
| 7) Functions of testosterone           | 11) Salutatory conduction  |
| 8) Isotonic and Isometric contractions |                            |

**III. Write short answers**

**5 x 2=10**

- 12) Name any two neurotransmitters
- 13) Bile Salts
- 14) Total Lung Capacity (TLC)
- 15) Sarfactant
- 16) Gigantism

**Section – B. BIOCHEMISTRY (Write in separate answer book)**

**QP CODE - 2193**

**I. Answer any one**

**1 x 10=10**

- 1) Write the principle, parts and applications of a photo-electric calorimeter.
- 2) What are enzymes? Explain the mechanism of enzyme action. Add a note isoenzymes.

**II. Write short notes on any one**

**1 x 5 = 5**

- 3) Balanced diet
- 4) Thyroid Function tests

**III. Write short answers**

**5 x 2=10**

- 5) Starch
- 6) Phospholipids
- 7) Essential amino acids
- 8) Normal range of electrolytes
- 9) Structure of a cell

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# **PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, May- 2015**

**III DPT – YOGA & MENTAL HEALTH**

**QP CODE - 3202**

**Time: 2 hrs**

**Max. Marks: 65**

**I. Long Essay - Answer any FOUR**

**4 x 10 =40**

- 1) Explain the types of Yoga purification practices
- 2) What is importance of Yogasanas.
- 3) Write the rule and techniques of yogasanas.
- 4) Write in detail about the various cure of ailment by Yoga
- 5) How do you relate yogasanas with normal Mental Health

**II. Write short notes on any FIVE**

**5 x 5 = 25**

- 6) Trikonasana
- 7) Meaning of Good health
- 8) Classification of Diseases
- 9) Yogic Diet
- 10) Benefits of Dhyana
- 11) Pancha Prana

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# **PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, May- 2015**

**I Year Diploma in Ophthalmic Technology/ II Year Certificate course in Ophthalmic Technology**

**PAPER – II**

**QP CODE - 2162**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Answer any TWO**

**2 x 10 = 20**

- 1) Define Corneal Ulcer. Write clinical features and management of fungal Corneal Ulcer.
- 2) Name few Ocular Emergencies. How do you diagnose and treat acute lacrimal abscess.
- 3) What is Glaucoma. Classify and describe briefly treatment of Primary open angle Glaucoma.

**II. Write short notes on any TEN**

**10 x 5 = 50**

- 4) Spring Catarrh
- 5) Diagnosis and Management of Pterygium
- 6) Atropine and its uses.
- 7) Prevention and Management of Vitamin 'A' deficiency.
- 8) Uses of Local anaesthetics.
- 9) Treatment of Chronic Dacrocystitis
- 10) Management of Acute bacterial conjunctivitis.
- 11) What is Amblyopia. How do you prevent it.
- 12) What are the Ocular changes in Diabetes mellitus.
- 13) Explain briefly the treatment of Acute Uveitis.
- 14) Mention the types of Cataract surgery.
- 15) Uses of steroids in Ophthalmology

**III. Write short answers**

**10 x 2 = 20**

- 16) Types of Corneal Opacity
- 17) Two points to diagnose Keratoconus.
- 18) Mydriatics and its Uses
- 19) Name two contraindications for use of mannitol.
- 20) Name two causes of night blindness.
- 21) Test to diagnose Dry eye
- 22) Mention the side effects of acetazolamide.
- 23) Mention two causes of Diplopia.
- 24) Types of Hypermature cataract
- 25) Name two causes of night blindness.

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**PARA MEDICAL BOARD, BANGALORE**

**Supplementary Examination, May-2015**

**I Year Diploma in Medical Laboratory Technology / II Year Certificate course in Medical**

**Laboratory Technology**

**BIOCHEMISTRY**

**QP CODE – 2103**

**TIME: 3 hrs**

**Max. Marks: 90**

**I. Long Essay – answer any TWO**

**2 X 10 = 20**

- 1) Define Carbohydrates. Classify them with suitable examples.
- 2) What are enzymes? Classify them with suitable examples.
- 3) Give the principle and uses of colorimeter with a neat diagram.

**II. Write short notes on any TEN**

**10 X 5 = 50**

- 4) Phospholipids
- 5) Semi auto analyzer
- 6) Functions of calcium
- 7) Enzymes of diagnostic importance
- 8) Water bath
- 9) Barfoed's test
- 10) pH meter
- 11) Essential amino acids
- 12) Blood gas analyzer
- 13) Theory of titration
- 14) Flame photometer
- 15) Define Normality and Molality

**III. Write short answers**

**10 x 2 = 20**

- 16) Essential fatty acids
- 17) Sucrose
- 18) Name two indicators
- 19) Give two examples for aliphatic compounds
- 20) Give two examples for strong bases
- 21) Isoelectric pH
- 22) What are buffers? Give examples
- 23) Reagent bottles
- 24) Structure of an atom
- 25) What are anamers? Give examples

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# **PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, May-2015**

**I Year Diploma in Health Inspector/ II Year Certificate course in Health Inspector**

**PAPER - I**

**QP CODE – 2111**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay- Answer any TWO**

**2x10=20**

- 1) Enumerate different types Family. Discuss the advantages & disadvantages of Nuclear Family & Joint Family?
- 2) Describe Functions of the following;  
a) Lungs b) stomach c) Liver
- 3) Role of family in health and diseases.

**II. Write short notes on any TEN**

**10x5=50**

- 4) Rural System
- 5) Dowry System
- 6) Enumerate the Sense Organs and discuss their functions.
- 7) Environmental Sanitation.
- 8) Explain the process of respiration.
- 9) Causes of population explosion.
- 10) Personal Hygiene.
- 11) Explain the process of Digestion.
- 12). Broken Family
- 13) Functions of saliva.
- 14). Rh Incompatibility
- 15) Duties of Medico social worker.

**III. Write short answers**

**10x2=20**

- 16) Health team concept.
- 17) Enumerate the blood groups.
- 18) Enumerate the stages of deglutination.
- 19) Types of immunity.
- 20) Doctor- Patient Relationship.
- 21) Behavioural science and its importance in Health & Disease .Any 4
- 22) WBC'S
- 23) Health problems related to urbanisation & industrialisation. Any 4
- 24) Functions of Family. Any 4
- 25) Field study.

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**PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, May-2015**

**I Year Diploma in Medical X- Ray Technology/ II Year Certificate course in  
Medical X- Ray Technology**

**ANATOMY**

**QP CODE – 2122**

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**2 x 10 = 20**

- 1) Name the parts of Central nervous system. Describe Spinal cord.
- 2) Name the parts of Gastrointestinal system. Describe liver in detail.
- 3) Name the parts of Urinary system. Describe Kidney in detail.

**II. WRITE SHORT NOTES ON ANY THREE**

**5 x 3 = 15**

- 4) Pituitary Gland
- 5) Ovary
- 6) Histology of Lymphnode.
- 7) Trachea

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 8) Name two features of a rib.
- 9) Name four Cranial nerves
- 10) Name four arterial branches of abdominal aorta
- 11) Name Structures draining into left atrium.
- 12) Name the Ear ossicles.

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# **PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, May-2015**

**I Year Diploma in Medical Records Technology/ II Year Certificate course in  
Medical Records Technology**

**ANATOMY, PHYSIOLOGY, PATHOLOGY & MICROBIOLOGY (N.S)**

**Note: Write section A, Section B & Section C in separate answer books**

**Time: 3 hrs**

**Max. Marks: 90**

**Section- A, ANATOMY(Write in separate answer book)**

## **QP CODE - 2142**

### **I. LONG ESSAY – ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Name the parts of Urinary system. Describe Kidney in detail
- 2) Name the Parts of Gastrointestinal system. Describe Liver in detail.

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

**2 x 5 = 10**

- 3) Thyroid Gland
- 4) Histology of Lymphnode
- 5) Synovial joint

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

**5 x 2 = 10**

- 6) Name four tarsal bones
- 9) Name the Ear ossicles
- 7) Name four muscles of Upper limb
- 10) Name two terminal Branches of brachial artery
- 8) Name four Cranial nerves

**SECTION – B, PHYSIOLOGY (Write in separate answer book)**

## **QP CODE - 2143**

### **I. WRITE SHORT NOTES ON ANY FOUR**

**4 x 5 = 20**

- 1) Functions of Plasma Proteins
- 5) Female IUD Contraceptive devices
- 2) Functions of Bile
- 6) Draw a neat labeled diagram of systemic and pulmonary circulation
- 3) Functions of CSF
- 4) Define Cardiac Output and Stroke Volume, give their Values

### **II. WRITE SHORT ANSWER**

**5 x 2 = 10**

- 7) Name the pancreatic hormones
- 8) Normal Tidal volume and Total lung capacity
- 9) Name two errors of refraction
- 10) Anemia and Thrombocytopenia
- 11) Normal pulse rate and respiratory rate

**SECTION C– PATHOLOGY & MICROBIOLOGY (Write in separate answer book)**

## **QP CODE – 2144**

### **I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Write the different types of Haemoglobin estimation. Briefly write about Sahli's method
- 2) What is Microbiology?. Write briefly about the different sections in the microbiology department.

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

**2 x 5 = 10**

- 3) Draw a neat diagram of Binocular Light Microscope
- 4) Write difference between gram positive and gram negative organisms.
- 5) Define tuberculosis. Write the different types of tuberculosis.

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

**5 x 2 = 10**

- 6) Normal components in Urine microscopy
- 7) Why Widal test is done?
- 8) What is Phlebotomy?
- 9) Terminology used in Sperm Count
- 10) Two Uses of Ziehl – Neilson Stain

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Dental Mechanics / II Year Certificate course in Dental Mechanics**

**APPLIED ORAL ANATOMY**  
**PAPER – II (N.S)**  
**QP CODE - 2172**

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**1 x 10 = 10**

- 1) Describe the Anatomy of Mandibular permanent second molar.
- 2) Mandibular denture- Supporting and limiting areas.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

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

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Name the muscles of tongue.
- 11) Retromolar pad.
- 12) Dentolabial sounds
- 13) Mid-palatine raphe
- 14) Lateral throat form

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May -2015**  
**I Year Diploma in Dental Hygiene / II Year Certificate course in**  
**Dental Hygiene (Preliminary)**  
**GENERAL PATHOLOGY, MICROBIOLOGY & PHARMACOLOGY (N.S)**

**Note: Write section A & Section B in separate answer books**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**Section- A, GENERAL PATHOLOGY & MICROBIOLOGY**  
**(write in separate answer book)**

**QP CODE- 2183**

**I. Long Essay (Answer any ONE)**

**1x 9=9**

- 1) Define Necrosis. What are the types of necrosis? Write in brief Coagulative necrosis.
- 2) Define Neoplasia; Differences between Benign and Malignant tumors

**II. Write short notes on any FOUR**

**4x 5 =20**

- 3) Vitamin D deficiency
- 4) Write briefly the cellular events of inflammation
- 5) Oral manifestation of anemia
- 6) Dental anomalies
- 7) Briefly describe oral leukoplakia
- 8) Tissue healing and factors affecting healing.

**III. Write short answers**

**3 x2 =6**

- 9) Mode of Hepatitis B infection
- 10) Differences between Gram positive Bacilli and Gram negative Bacilli
- 11) Why infection control board necessary in an hospital.

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

**QP CODE- 2184**

**I. Write short answers**

**5 x 2 =10**

- 1) Mention two uses of paracetamol
- 2) Mention two local anaesthetics
- 3) Mention two semisynthetic penicillins
- 4) Define dentifrices
- 5) Mention any two vitamins and one use of each.

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# PARAMEDICAL BOARD, BANGALORE

Supplementary Examination, May- 2015

I Year Diploma in OT Technology/ II Year Certificate course in OT Technology

**BIOCHEMISTRY, PHARMACOLOGY AND MICROBIOLOGY**

**Note: Write Section A, B & C in separate answer books**

**Time: 3 hrs**

**Max. Marks: 90**

## **SECTION –A, BIOCHEMISTRY (Write in separate answer book)**

### **QP CODE - 2132**

#### **I. LONG ESSAY – ANSWER ANY ONE**

**1 X 10 = 10**

- 1) Discuss the analysis of abnormal urine in detail.
- 2) What is the normal blood pH? Explain the factors maintaining normal blood pH.

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

**2 X 5 = 10**

- 3) Urea cycle
- 4) Digestion of carbohydrates
- 5) Tests for proteinuria

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

**5 x 2 = 10**

- 6) Normal value for serum electrolytes
- 7) Test for identification of creatinine
- 8) Name two causes for metabolic alkalosis
- 9) Specific gravity of urine
- 10) Give normal range for urea and creatinine in blood

## **SECTION – B, PHARMACOLOGY (Write in separate answer book)**

### **QP CODE - 2133**

#### **I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Enumerate the various routes of drug administration with suitable examples. Write the advantages and disadvantage of oral route.
- 2) Classify General Anaesthetics. Write the advantages and disadvantages of Halothane as general anaesthetic.

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

**2 x 5 = 10**

- 3) Paracetamol
- 4) Sulfamethoxazole
- 5) Ketamine

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

**5 x 2 = 10**

- 6) Mention 2 uses of potassium permanganate
- 7) Name two drugs used as pre-anaesthetic medication.
- 8) Define Pharmacokinetics.
- 9) Mention two uses of Diazepam
- 10) Name two semisynthetic penicillins.

## **SECTION – C, MICROBIOLOGY (Write in separate answer book)**

### **QP CODE - 2134**

#### **I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Define and Classify Immunity. Discuss in detail Active Immunity.
- 2) Discuss Laboratory diagnosis of Pulmonary Tuberculosis.

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

**2 x 5 = 10**

- 3) Nosocomial Infections
- 4) Diagnosis of HIV Infection
- 5) Autoclave.

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

**5 x 2 = 10**

- 6) Write two contributions of Louis Pasteur
- 7) Air Sampling Technique
- 8) Name Four Anaerobic Bacteria
- 9) Name two bacterial Vaccine
- 10) Name two spore forming bacteria

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May-2015**  
**I Year Diploma in Dialysis Technology/ II Year Certificate course in**  
**Dialysis Technology**  
**BIOCHEMISTRY & MICROBIOLOGY**

**Note: Write Section A and B in separate answer books**

**Time: 3 hrs**

**Max. Marks: 90**

**SECTION- A, BIOCHEMISTRY (Write in separate answer book)**

**QP CODE - 2153**

**I. LONG ESSAY – ANSWER ANY ONE**

**1 X 10 = 10**

- 1) Explain the factors maintaining normal blood glucose level.
- 2) What is the normal blood pH? Explain the factors maintaining normal blood pH.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 X 5 = 25**

- 3) Metabolic acidosis
- 4) Photo electric colorimeter
- 5) Renal function tests
- 6) Explain the synthesis of creatinine in the body
- 7) Technique of collection of blood sample & its separation
- 8) Analysis of normal urine

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Normal range of electrolytes
- 10) Biuret test
- 11) Difference between acid & base
- 12) Uses of a pH meter
- 13) Define a buffer. Give examples

**SECTION – B, MICROBIOLOGY (Write in separate answer book)**

**QP CODE - 2154**

**I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Define Sterilization. Discuss in detail Moist heat sterilization.
- 2) Define nosocomial infections. Discuss sterilization of ICU in detail.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- 3) Bacterial Flagella
- 4) Candidiasis.
- 5) Post exposure prophylaxis for HIV
- 6) Biomedical Waste management
- 7) Passive Immunity
- 8) Bacterial Growth Curve

**III. WRITE SHORT ANSWERS**

**5x 2 =10**

- 9) Name two acid fast bacilli
- 10) Name two Bacterial vaccines
- 11) Name two sexually transmitted infections
- 12) Name two Herpes viruses
- 13) Name two gaseous disinfectants.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II D.P.T – GENERAL MEDICINE INCLUDING CARDIOLOGY & NEUROLOGY**  
**QP CODE – 3193**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay - Answer any FIVE**

**5 x 12=60**

- 1) What are the Clinical features, Investigations and Treatment of Lobar Pneumonia.
- 2) What are the predisposing factors, Clinical features, Investigations and Treatment of Acute Myocardial Infarction.
- 3) Write types of Diabetes Mellitus, Clinical features, Complications and Management of Diabetes Mellitus.
- 4) Write in detail about Clinical features, Complications and Management of Cirrhosis of Liver.
- 5) Write Clinical features, Investigations and Treatment of Tubercular Meningitis.
- 6) What are the Causes, Clinical features and Management of Iron deficiency Anemia.

**II. Write short note on any SIX**

**6 x 5= 30**

- 7) Myxoedema.
- 8) Pulmonary Thromboembolism.
- 9) Chronic Bronchitis.
- 10) Management of Acute Stroke.
- 11) Temporal lobe epilepsy.
- 12) ARDS ( Acute Respiratory Distress Syndrome ).
- 13) Malaria.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Medical Laboratory Technology / III Year Certificate course**  
**in Medical Laboratory Technology**  
**MICROBIOLOGY**  
**QP CODE – 3103**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay – Answer any TWO**

**2 x 10=20**

- 1) Enumerate Antigen-Antibody Reactions. Discuss Agglutination.
- 2) Enumerate causes of Urinary Tract infection. Describe in detail Laboratory diagnosis of Urinary Tract Infection.
- 3) Describe Morphology and Lab diagnosis of Pulmonary Tuberculosis.

**II. Write short notes on any TEN**

**10 x 5 =50**

- 4) Candidiasis
- 5) Coagulase Test.
- 6) Transmission of HIV.
- 7) VDRL Test
- 8) Standard Precautions.
- 9) Laboratory Diagnosis of Malaria
- 10) Laboratory diagnosis of Enteric fever
- 11) Laboratory Diagnosis of Entamoeba histolytica
- 12) Prophylaxis of Tetanus.
- 13) Antibiotic Sensitivity Testing.
- 14) Biomedical waste management.
- 15) Nosocomial infections

**III. Write short answers**

**10 x 2 = 20**

- 16) Name four Viral vaccines.
- 17) Name two Sexually transmitted infections..
- 18) Name four bile stained ova.
- 19) Name two dimorphic fungi.
- 20) Name two intradermal tests.
- 21) ASLO Test.
- 22) Name two virus causing Meningitis.
- 23) Name two media used for fungal culture.
- 24) Name two bacteria causing pneumonia.
- 25) Name two Acid fast bacilli.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Health Inspector/III Year Certificate course in**  
**Health Inspector**  
**PAPER – III**  
**QP CODE - 3113**

**Time: 3 hrs**

**Max. Marks: 90**

**I Long Essay \_ Answer any TWO**

**2 X 10 = 20**

1. Enumerate International Health Agencies. Describe the functions of WHO.
2. Enumerate various levels of Health Care System in India. Describe CHC in detail.
3. Classify Occupational Diseases. Write briefly on Silicosis.

**II Write short notes on any TEN**

**10 X 5 = 50**

- 4 Occupational hazards of Agricultural Workers
- 5 Steps in Planning Cycle
- 6 Process of Health Information System
- 7 UNICEF
- 8 ICDS
- 9 Steps in Investigation of an Epidemic
- 10 Principles of Primary Health Care
- 11 Types of disaster
- 12 Voluntary Health Agencies
- 13 Junior Health Assistant – Female
- 14 Benefits under ESI
- 15 Social Security

**III Write short answers**

**10 X 2 = 20**

- 16 Sub centre
- 17 Record Linkage
- 18 Aims of Interview
- 19 ILO
- 20 Referral System
- 21 Helmet
- 22 Gram Panchayath
- 23 Medical Care
- 24 Farmer's Lung
- 25 Define Ergonomics.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Medical X- Ray Technology/ III Year Certificate course**  
**In Medical X- Ray Technology**  
**RADIOGRAPHY INCLUDING NEWER IMAGING TECHNOLOGY, (N.S) R-II**  
**QP CODE – 3123**

**Time: 3 hrs Max.**

**Marks: 90**

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

**2 x 10 = 20**

- 1) Write a note on Computed radiography and explain how it is different from conventional radiography.
- 2) Write a note on Magnetic Resonance Imaging (**MRI**) Physics. Describe any two sequences in **MRI**
- 3) Enumerate the principle on which a CT scan machine works. Discuss different generation of CT scanners.

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

**10 x 5 = 50**

- 4) CT Angiography
- 5) Digital radiography.
- 6) HSG ( Hysterosalpingogram)
- 7) Cholecystography
- 8) CECT KUB.
- 9) Contrast agents.
- 10) Routine projections for lower limb.
- 11) Image intensifier tube of fluoroscopy
- 12) Write differences between wide and narrow angle tomography.
- 13) Xenon gas ionization chambers.
- 14) PACS

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 15) Larmour frequency
- 16) Projections for scaphoid.
- 17) CT number
- 18) Partial volume artifact in CT.
- 19) Draw a neat labeled diagram of Xeroradiographic plate.
- 20) Define tomographic angle and exposure angle.
- 21) Potentiometer.
- 22) Write four uses of ultrasound.
- 23) Write four safety measures for radiographers in fluoroscopy
- 24) Thermo luminescent Dosimeter.
- 25) Streak artefacts.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Medical Records Technology/ III Year Certificate course**  
**In Medical Records Technology**  
**COMPUTER SCIENCE**  
**QP CODE – 3143**

**Time: 1 ½ hrs**

**Max. Marks: 40**

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

**1 x 10 = 10**

- 1) Define Computer and write the uses of computers in different fields.
- 2) What is computer virus? What are its indications? How it can be prevented/controlled?

**II. WRITE SHORT NOTES ON ANY FOUR**

**4 x 5 = 20**

- 3) Data Processing
- 4) Disadvantages of Computers.
- 5) Flow chart.
- 6) Types of printers.
- 7) Software.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 8) E-Mail
- 9) RAM
- 10) Pendrive
- 11) Keyboard.
- 12) Internet.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Dental Hygiene / III Year Certificate course**  
**In Dental Hygiene**  
**Operating room Technique, Chair side Assts. & Dental Materials,**  
**Ethics & Jurisprudence (N.S)**  
**PAPER – III**  
**QP CODE – 3183**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**I. Long essay**

**1x 10=10**

- 1) Describe in detail various specialties in dentistry.

**II. Write short notes**

**5 x 5 =25**

- 2) Sterilization and care of Dental instruments.
- 3) Billing and Accounting
- 4) Malpractice.
- 5) Ethics in dental practice.
- 6) Dental material maintenance and supply.

**III. Write short answers**

**5 x 2= 10**

- 7) Model and Charts
- 8) Dental Auxiliary
- 9) Computers in dentistry.
- 10) Chair side assistance.
- 11) Audio visual aids.

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**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, May 2015**  
**Common paper for all I year Certificate Courses**  
**BIOLOGY**  
**(OLD & NEW SCHEME)**  
**QP CODE 1103**

**Time: 1 ½ hrs**

**Max. Marks: 45 New Scheme**

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

**1 x 10 = 10**

- 1) Describe bacterial structure with neat labeled diagram.
- 2) Draw a neat labeled diagram of the nephron and describe the formation of Urine.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25 (N.S)**

- 3) Carcinogens and methods of detection of Cancer.
- 4) Fertilization.
- 5) Blood group and Rh typing.
- 6) Write a note on Nucleus.
- 7) Describe AIDS, Write the common modes of infection and prevention.
- 8) Structure of cell.
- 9) Autosomes and Allosome.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Define Viruses.
- 11) Implantation.
- 12) Chemical composition of DNA
- 13) Hemoglobin.
- 14) Heart Chambers

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May- 2015**  
**I D.P.T – MICROBIOLOGY**  
**QP CODE – 2194**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay - Answer any two**

**2 x 10 = 20**

- 1) Define and classify Hypersensitivity reactions. Explain in detail type 1 hypersensitivity
- 2) Define infection. Discuss in detail source of infection and mode of transmission.
- 3) Describe the morphology, pathogenesis and lab diagnosis of Cholera.

**II. Write short notes on any ten**

**10 x 5 = 50**

- 4) Bacillary Dysentery
- 5) Cultivation of virus
- 6) Prophylaxis for Diphtheria.
- 7) Active Immunity
- 8) Luis Pasteur
- 9) Plasmid.
- 10) Biomedical Waste Management.
- 11) Modes of Transmission of HIV.
- 12) Cryptococcosis.
- 13) Entamoeba histolytica.
- 14) Pasteurization
- 15) Autoclave.

**III. Write short answers**

**10 x 2 =20**

- 16) Name two DNA viruses.
- 17) Name two bile stained ova
- 18) Name four Anaerobes.
- 19) Name two zoonotic diseases.
- 20) Name two motile bacteria.
- 21) ASLO Test.
- 22) Name four Indole Positive bacteria.
- 23) Name two viral vaccines
- 24) Name two intradermal tests.
- 25) Name two methods of preventing swarming.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**III D.P.T – DISABILITY EVALUATION & COMMUNITY PHYSIOTHERAPY**  
**QP CODE – 3203**

**Time: 2 hrs**

**Max. Marks: 65**

**I. Long Essay - Answer any FOUR**

**4 x 10 =40**

- 1) Explain in detail about the role of physiotherapist in maternal care.
- 2) Definition of Magneto-therapy- Aim and principles of treatment
- 3) Explain the role of physiotherapist in stump management.
- 4) Write the different types of neurological deficits and explain any one in detail.
- 5) Describe the types of prosthesis. Write the principles of upper limb prosthesis training

**II. Write short notes on any five**

**5 x 5 = 25**

- 6) Musculo-skeletal deficits
- 7) Amputation.
- 8) Speech therapy.
- 9) Factors of Industrial hazard.
- 10) Cardio-respiratory testing.
- 11) Congenital deformities.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Medical Laboratory Technology/ II Year Certificate course in**  
**Medical Laboratory Technology**  
**PATHOLOGY**  
**QP CODE – 2104**

**Time: 3 hrs**

**Max. Marks : 90**

**I. Long Essay (Answer any Two)**

**2 x 10 = 20 Marks**

1. Write Wintrobe's & Westergren's ESR test methods, factors affecting the values, limitations and significance.
2. What is Phlebotomy? Write the method of collection of blood sample. Write a note on errors that can occur in phlebotomy.
3. Write the normal composition of Urine. Describe the different methods of collection of urine and preservative used

**II. Short Essay on any Ten**

**10 x 5 = 50 Marks**

4. Write the procedure of Cyanmethhemoglobin method with its merits
5. Errors in Section cutting and their corrections
6. Formalin - Advantages and Disadvantages
7. Mention the components present in the RBC diluting fluid and their function.
8. Merits and Demerits of Histokinette (Automated tissue processor)
9. Draw a labeled diagram of binocular microscope, write a note on care of microscope
10. Buffy coat preparation and its usefulness
11. Different types of waxes used in histopathology and Their uses
12. Preparation of Hematoxylin and Eosin stain in histopathology
13. What is decalcification? Mention different methods of decalcification
14. Preparation and staining of the Peripheral smear.
15. What are the components of Papanicolaou stain and staining procedure

**III. ShortAnswers**

**10 x 2 = 20 Marks**

16. What is anisocytosis and poikilocytosis, example for each.
  17. Write the different methods of platelet counting
  18. What is buffer solution and its uses
  19. Melting point of paraffin wax
  20. Draw a labeled diagram of an eosinophil
  21. Name two Hemoparasites
  22. Parts of Microtome Knife
  23. Name two fixatives used to fix cytology smears.
  24. Name 3 clearing agents
  25. Crystals seen in urine sediment.
- .....

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Health Inspector/ II Year Certificate course in Health**  
**Inspector**  
**PAPER - II**  
**QP CODE – 2112**

**Time: 3 hrs**

**Max. Marks: 90**

**I Long Essay- Answer any TWO**

**2x10=20**

- 1) Discuss Protein Energy Malnutrition, with its preventive measures
- 2) What is noise? Effects of Noise and its control measures.
- 3) Describe the life cycle of hook worm. Enumerate the health hazards caused by Hook worm. How do you prevent hook worm infestation?

**II. Write short notes on any TEN**

**10x5=50**

- 4) Over crowding.
- 5) Deforestation its effect on health.
- 6) Water Conservation.
- 7) Effects of Heat stress.
- 8) Fats & Diseases.
- 9) Water related diseases.
- 10) Classify Foods.
- 11) Discuss Vitamin C deficiency & its prevention.
- 12) Nutritional Anemia.
- 13) Visible & invisible fats.
- 14) Prevention & control of Ascariasis.
- 15) Pasteurisation of milk.

**III . Write short answers**

**10x2=20**

- 16) Any four Sources of Iron
- 17) Food additives
- 18) Agents of food poisoning
- 19) Goitre control
- 20) Sources of Dietary fibres & its uses any four
- 21) Super chlorination
- 22) Balanced diet
- 23) Define & enumerate micro - nutrients
- 24) Importance of parboiling of Rice.
- 25) Albendazole.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Medical X- Ray Technology/ II Year Certificate course in**  
**Medical X- Ray Technology**  
**PHYSIOLOGY**  
**QP CODE - 2123**

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**1 x 10 = 10**

- 1) Describe the major Blood group systems and their importance.
- 2) Describe Neural Regulation of Respiration.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- 3) Lung Volume and Capacities.
- 4) Anaemias.
- 5) Action of Thyroid Hormones.
- 6) Neuromuscular junction.
- 7) Spermatogenesis.
- 8) Reflex arc.
- 9) Hypoxia.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 10) Name two anticoagulants.
- 11) Two functions of skin.
- 12) What is Apnea.
- 13) Hormones of Posterior Pituitary.
- 14) Name types of Muscles.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Medical Records Technology/ II Year Certificate course in**  
**Medical Records Technology**  
**HOSPITAL STATISTICS & BIostatistics**  
**QP CODE – 2145**

**Max. Marks: 90**

**I. LONG ESSAY**

**4 x 10 = 40**

1. Explain different kind of measures of dispersions with its merits and demerits.
2. Define correlation and regression with its formula and explain their importance in medical field.
3. Uses of Computers in Medical Record section.
4. Define Health information system. Add a note on census.

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

**10 X 4 = 40**

5. Primary data.
6. Principles of presenting tables.
7. Arithmetic Mean.
8. Uses of Statistics.
9. Simple random sampling.
10. Infant mortality rate.
11. Incidence and prevalence rate.
12. Growth rate.
13. Histogram.
14. Classification.
15. Patients day.

**III. WRITE BRIEFLY ON ANY FIVE**

**5 X 2 = 10**

16. Admission and discharge.
17. Record linkage.
18. Post operative death rate.
19. Median.
20. Caesarean section rate.
21. In-patient record.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Dental Hygiene / II Year Certificate course in Dental Hygiene**  
**GENERAL BIOCHEMISTRY & RADIOLOGY**

**Note: Write section A & Section B in separate answer books**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**Section- A, GENERAL BIOCHEMISTRY (write in separate answer book)**

**QP CODE – 2185**

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

- 1) Define proteins. Classify them with suitable examples.
- 2) Sources, Recommended Daily Allowance (RDA), biochemical functions, deficiency manifestations of vitamin C.

**II. WRITE SHORT NOTES ON ANY THREE** **3 X 5 = 15**

- 3) Ketone bodies.
- 4) Functions and deficiency manifestations of calcium.
- 5) Effect of malnutrition on oral health.
- 6) Fluoride.

**Section-B, RADIOLOGY (write in separate answer book)**

**QP CODE - 2186**

**I. Write short notes** **4 x 5 = 20**

- 1) Paralleling angle technique.
- 2) OPG.
- 3) Processing solutions.
- 4) Occupational exposure.

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**PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, May 2015**

**I Year Diploma in O.T Technology/ II Year Certificate course in O.T Technology**

**ANATOMY AND PHYSIOLOGY**

**Note: Write Section A & B in separate answer books**

**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 the parts of Male Reproductive System. Describe testis.
- 2) Name the parts of Gastrointestinal system. Describe liver in detail.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- |                        |                       |
|------------------------|-----------------------|
| 3) Scalp.              | 6) Trachea.           |
| 4) Supports of Uterus. | 7) Synovial Joint.    |
| 5) Thyroid Gland.      | 8) Exterior of Heart. |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Name 4 Paranasal sinuses.
- 10) Name 4 Carpal bones.
- 11) Name 4 openings in right atrium.
- 12) Name 3 gross features of large intestine.
- 13) Name 2 muscles of tongue.

**SECTION- B, PHYSIOLOGY (Write in separate answer book)**

**QP CODE – 2136**

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

**1 x 10 = 10**

- 1) Name the inspiratory and expiratory muscles of respiration. And describe the mechanism of ventilation.
- 2) Name the different types of Blood groups. Describe briefly on ABO system of Blood grouping. Add a note on Cross matching.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- 3) Functions of middle ear.
- 4) Functions of Kidney.
- 5) Draw a neat labeled diagram of Neuromuscular junction.
- 6) Composition and functions of gastric juice.
- 7) Spermatogenesis.
- 8) Myxedema.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Diabetes Mellitus and Diabetes Insipidus.
- 10) Bleeding time and Clotting time.
- 11) Cardiac Output and stroke volume.
- 12) Name the bile salts.
- 13) Leucopenia and leukemia.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Dialysis Technology/ II Year Certificate course in Dialysis Technology**

**ANATOMY AND PHYSIOLOGY**

**Note: Write Section A & B in separate answer books**

**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) Name the parts of the Gastrointestinal system. Describe stomach
- 2) Name the parts of the respiratory system. Describe left and right lung in detail.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- |                               |                               |
|-------------------------------|-------------------------------|
| 3) Right Kidney               | 6) Pituitary gland.           |
| 4) Exterior of heart          | 7) Bronchopulmonary segments. |
| 5) Histology of Compact bone. | 8) Liver.                     |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Name 4 tarsal bones.
- 10) Name the 2 muscles of tongue.
- 11) Name the salivary glands.
- 12) Name 4 bones of upper limb.
- 13) Name the ear ossicles.

**SECTION- B, PHYSIOLOGY (Write in separate answer book)**

**QP CODE – 2156**

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

**1 x 10 = 10**

- 1) Define Blood Pressure & describe short term regulation of Blood Pressure.
- 2) Describe stages & factors required for Erythropoiesis.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- 3) Functions of White Blood Cell's (WBC's)
- 4) Renin –Angiotensin mechanism
- 5) Non-secretory functions of Kidney.
- 6) Distribution of Body fluid compartments.
- 7) Heart Sounds.
- 8) Transport of Oxygen.
- 9) Composition & functions of Gastric juice.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 10) Normal Erythrocyte Sedimentation Rate (ESR) & Packed Cell Volume (PCV).
- 11) Define Pulse.
- 12) Name Hormones of Pituitary.
- 13) Name the hormones acting on Kidney.
- 14) Draw a neat diagram of ECG.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II D.P.T – GENERAL SURGERY AND ORTHOPAEDICS**  
**QP CODE – 3194**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay - Answer any TWO**

**2 x 15=30**

- 1) What is Appendix? Write in detail the management of Appendicitis
- 2) How do you classify Burns; Discuss the treatment of different types of burns.
- 3) Discuss the clinical features and management of head injury.

**II. Write short notes any THREE**

**3 x 5= 15**

- 4) Tendon transfer.
- 5) Hydrocephalus.
- 6) Vascular diseases
- 7) Oesophagitis.

**III. Answer any TWO**

**2 x 15= 30**

- 8) Discuss the clinical features and management of Patellar fractures.
- 9) Describe the the management of fracture cervical spine.
- 10) Discuss the clinical features and management of Osteomyelitis and Bone tumors.

**IV. Write short notes on any THREE**

**3 x 5= 15**

- 11) Muscular dystrophy.
- 12) Rickets.
- 13) Thoracotomy.
- 14) Pathological fractures.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Medical Records Technology/ III Year Certificate course in**  
**Medical Records Technology**  
**MEDICAL AND SURGICAL CODING**  
**QP CODE – 3144**

**Time: 1 hr**

**Max. Marks: 20**

**ANSWER ANY FOUR QUESTIONS**

**4 x 5 = 20**

- 1) What are the purposes of coding and indexing of diseases?
- 2) What are the special points that coder should remember while coding?
- 3) Explain the basic rules of coding.
- 4) Define coding and write the procedure of coding Diabetes mellitus and its complications.
- 5) Expand the following abbreviations:

A: COLD.  
B: RHD.  
C: LSCS.  
D: DKA.  
E: LMLE.

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**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, May 2015**  
**Common paper for all I year Certificate Courses**  
**ENGLISH**  
**QP CODE 1104**

**Time: 1 ½ hrs**

**Max. Marks: 45**

**I. WRITE AN ESSAY ON ANY ONE OF THE FOLLOWING**

**1x15=15**

- 1) ICC Cricket World Cup 2015.
- 2) Garbage disposal.

**II. ANSWER ANY ONE**

**1 x 10 = 10**

- 3) Write a letter to your father asking him the permission and money for your educational trip.
- 4) Write a letter to your local councilor about the bad roads in your colony.

**III. WRITE THE OPPOSITE GENDER OF THE FOLLOWING**

**5 x 1 =5**

- 5) Maid.      6) Tiger.    7) Fox.    8) Father-in-law.    9) Bull.

**IV. WRITE THE OPPOSITE OF**

**5 x 1 =5**

- 10) True.      11) Cold.    12) Front.    13) Quick.    14) Far.

**V. MAKE SENTENCES USING THE FOLLOWING**

**5 x 1 = 5**

- 15) As well as.
- 16) While.
- 17) Instead of.
- 18) Even though.
- 19) Either- Or.

**VI. FILL IN THE BLANKS**

**5 x 1 =5**

- 20) The sun sets \_\_\_\_\_ the west.
- 21) I like football \_\_\_\_\_ cricket.
- 22) The pen is \_\_\_\_\_ the table.
- 23) The girl ran fast \_\_\_\_\_ she was tired.
- 24) It has been a long time \_\_\_\_\_ I visited my native place.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I D.P.T – PSYCHOLOGY**  
**QP CODE – 2195**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay - Answer any THREE**

**3 x 15 = 45**

- 1) Explain in detail about the development and growth of behavior from infancy to old age.
- 2) Define Psychology; Discuss the subject matter of psychology; add a note on uses of psychology in Physiotherapy
- 3) Explain motivation. What are the types? How are conflicts in motives resolved? Give examples
- 4) What are neuropsychological tests, elaborate its uses.

**II. Answer any THREE**

**3 x 10 = 30**

- 5) Explain theories of remembering and forgetting; how do you measure memory?
- 6) What are the different forms of thinking; what do you understand by problem solving?
- 7) Write in detail about the principles of learning.
- 8) Define perception; make a diagram of perceptual organization.

**III. Answer any FIVE**

**5 x 3 = 15**

- 9) Study habits
- 10) Stress management
- 11) Prejudice
- 12) Hallucinations and illusions
- 13) Introverts and Extroverts
- 14) Importance of Emotions
- 15) Psychological testing

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**III 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) Define Bronchiectasis, write its epidemiology, clinical features, investigations and treatment.
- 2) Explain the developmental dysplasia of the hip. Write its clinical features, pathology and treatment.
- 3) Define Scoliosis. What are the different causes for it, diagnosis and assessment on conservative, surgical and physiotherapeutic treatment.
- 4) Explain in detail about disseminated sclerosis. Write its etiology, pathology, clinical features & Management.
- 5) Define Osteoarthritis (OA). Write its etiology, classification, cause, pathology, clinical features and treatment.
- 6) Different therapeutic exercise and PNF technique for different neuro muscular disorders.

**II. Write short notes on any five**

**5 x 6 = 30**

- 7) Biofeedback.
- 8) Abnormalities in hand function and treatment.
- 9) Voluntary and Involuntary movements.
- 10) Thoracotomy.
- 11) Head injury.
- 12) Hyperhidrosis.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Medical Laboratory Technology/ II Year Certificate course in**  
**Medical Laboratory Technology**  
**MICROBIOLOGY**  
**QP CODE – 2105**

**Time: 3 hrs**

**Max. Marks: 90**

**I. LONG ESSAY – ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Draw a neat labeled diagram of bacterial cell. Write about bacterial spores.
- 2) Mention different microscopes. Describe in detail the care taken for handling the microscopes.
- 3) Classify Immunity. Discuss active immunity.

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

**10 x 5 = 50**

- 4) Indole test.
- 5) Albert stain.
- 6) Fumigation.
- 7) Agar Agar.
- 8) Enriched media.
- 9) Louis pasteur.
- 10) Antigen.
- 11) Uses of Gram stain.
- 12) Oxidase test.
- 13) Bacterial flagella.
- 14) Standard precautions.
- 15) Moist heat sterilization.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Name four gram negative bacilli.
- 17) Name four motile bacteria.
- 18) Name two anaerobic medias.
- 19) Name four vaccines.
- 20) Name the immunoglobulins.
- 21) Name two acid fast bacilli.
- 22) Name two urease positive bacilli.
- 23) Name two articles sterilized by hot air oven.
- 24) Name two chemical disinfectants.
- 25) Name two uses of Dark ground microscope.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Health Inspector/ II Year Certificate course in Health**  
**Inspector**  
**PAPER – III**  
**QP CODE – 2113**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay- Answer any TWO**

**2x10=20**

- 1) Define Health. Add a note on Determinants of Health.
- 2) Define Epidemic. Write in detail about an investigation of an epidemic.
- 3) Write in detail the different methods of mosquito control.

**II. Write short notes on any TEN**

**10x5=50**

- 4) Treatment of scabies.
- 5) Iceberg of Disease.
- 6) Define Incidence .Write its uses.
- 7) Define Cold chain. Add a note on cold chain equipments.
- 8) Define Disinfection. Add a note on different types of disinfection.
- 9) Control measures for housefly. Write on fly control.
- 10) Explain the life cycle of mosquito with a neat diagram.
- 11) Rehabilitation.
- 12) Define statistics. Write its uses.
- 13) Write about the different methods of presentation of data.
- 14) Tertiary prevention.
- 15) Define risk factors. Write about the risk factors for cardio-vascular diseases.

**III. Write short answers**

**10x2=20**

- 16) Notification.
- 17) Surveillance.
- 18) Paris green.
- 19) Define Endemic.
- 20) Mention 4 zoonotic diseases.
- 21) Mean.
- 22) Pie Chart.
- 23) Simple Random Sample.
- 24) Define Herd immunity.
- 25) Contagious Diseases.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**I Year Diploma in Medical X- Ray Technology/ II Year Certificate course in**  
**Medical X- Ray Technology**  
**PATHOLOGY**  
**QP CODE – 2124**

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**1 x 10 = 10**

1. Mention the different types of vitamins; write in detail manifestation of vitamin D deficiency.
2. Define Emphysema. Write the different types and complications of emphysema.

**II. Short Essay on any five**

**5 x 5 = 25 Marks**

3. Write the difference between gastric ulcer and duodenal ulcer.
4. Healing of fracture.
5. Rheumatic heart disease.
6. Define Goiter. Write the causes and types of goiter.
7. Carcinoma breast.
8. Write differences between transudate and exudates.
9. What is Metaplasia? Explain different types with example.

**III. Short Answers**

**5 x 2 = 10 Marks**

10. Pot's spine.
11. Causes for Cirrhosis of liver.
12. Two causes for cardiomegaly.
13. Give two causes for Epistaxis.
14. What is Gouty Arthritis?

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, MAY 2015**  
**II Year D.P.T**  
**PATHOLOGY**  
**QP CODE - 3191**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay (Answer any three)**

**3 x 10 = 30 Marks**

1. Define infarction. Write the risk factors, morphology and complications of myocardial infarction
2. Mention the different types of vitamins; write in detail manifestation of vitamin D deficiency
3. Define Pneumonia. Write the causes, pathology and types of pneumonia
4. Define Inflammation. What are the types of inflammation? Write in brief cellular event of inflammation.

**II. Short Essay on any twelve**

**12x 5 = 60 Marks**

5. Nephrotic Syndrome
6. Chronic myeloid leukemia (CML)
7. Write difference between Benign tumor and Malignant tumors
8. What is Necrosis? Explain different types with example for each
9. Define Pneumoconiosis. Write the type of Pneumoconiosis and the causative agent
10. Biological effects of ionizing radiation
11. Portal hypertension
12. Pot's Spine
13. Barrett's esophagus
14. Pyogenic meningitis with a note on its CSF findings
15. Rheumatoid arthritis
16. Myasthenia gravis
17. Type IV hypersensitivity reaction

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Ophthalmic Technology/ III Year Certificate course in**  
**Ophthalmic Technology**  
**PAPER – I**  
**QP CODE – 3161**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay - Answer any TWO**

**2 x 10 = 20**

- 1) Describe the steps of Cataract Surgery. Mention few early post operative complications.
- 2) Nursing care of Post operative patients in the ward
- 3) Describe the preparation of trolley for Chalazion surgery

**II. Write short notes on any TEN**

**10 x 5 = 50**

- 4) Instruments used for fitting and checking the power of spectacles.
- 5) Ocular bandaging
- 6) Autoclave and its uses
- 7) Transposition of lenses
- 8) Fumigation
- 9) Various methods of sterilization of Operation Theatre (OT)
- 10) Method of instillation of eyedrops
- 11) Lacrimal syringing and its uses
- 12) Minor procedure of removal of corneal Foreign body(FB)
- 13) IV Mannitol and its uses
- 14) Preparation of Gonioscopy
- 15) Drugs used for mydriasis in Refraction

**III. Write short answers**

**10 x 2 =20**

- 16) Name two uses of Direct Ophthalmoscope
- 17) Name instruments used to check Intraocular pressure
- 18) Epilation and its uses
- 19) Method of bed making in Ophthalmology ward
- 20) Asepsis during dressing of the eye
- 21) Name two causes of Night blindness
- 22) How do you sterilize Tonometer?
- 23) Name various routes of administration of local anesthetics
- 24) Two causes of Diplopia
- 25) Name two instruments required to measure Squint

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Medical Laboratory Technology/III Year Certificate course**  
**in Medical Laboratory Technology**  
**BIOCHEMISTRY**  
**QP CODE- 3101**

**Time: 3 hrs**

**Max. Marks: 90**

- I. **Long Essay – answer any TWO** **2 X 10 = 20**
1. Explain the Glucose Tolerance Test (GTT) in detail.
  2. Describe the principles, applications and different types of Chromatography.
  3. Describe the kidney function tests. Add a note on Clearance tests.
- II. **Write short notes on any TEN** **10 X 5 = 50**
4. Explain formation of Uric acid
  5. Auto-analyzer
  6. Ketogenesis
  7. Ion-Selective Electrodes (ISE)
  8. External quality control
  9. Tests for Organic constituents of urine
  10. Glycogenesis
  11. Tests for identification of proteins in urine
  12. Types of electrophoresis. Add a note on its applications
  13. Liver function tests
  14. Abnormal constituents of urine
  15. Describe the digestion and absorption of proteins
- III. **Write short answers** **10 x 2 = 20**
16. Benedict's test
  17. Specific gravity of urine
  18. Clearance test
  19. Hypo-kalemia
  20. Write two uses of ELISA
  21. Cardiac enzymes
  22. Name two enzymes of carbohydrate digestion
  23. Vandenberg's test
  24. Proteinuria
  25. Functions of phospholipids

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Health Inspector/ III Year Certificate course in Health**  
**Inspector**  
**PAPER – I**  
**QP CODE – 3111**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay – Answer any TWO**

**2X10=20**

- 1). Define Primary Health care. Write briefly about staffing & functions of Primary Health Centre.
- 2). What are the causes of blindness. Add a note on vision 2020
- 3). Enumerate common viral diseases among children. Describe the epidemiology of any one of them.

**II. Write short notes on any TEN**

**10 X 5=50**

- 4). Types of Plague.
- 5). Types of accidents.
- 6). Primary prevention in Diabetes Mellitus.
- 7). Epidemiology of Typhoid.
- 8). Modes of HIV transmission.
- 9). Biological vector control measures.
- 10). Vitamin A Prophylaxis programme.
- 11). B.C.G.
- 12). Scabies
- 13). Danger signals of cancer.
- 14). Body mass index
- 15). First-Aid in Burns

**III. Write short answers**

**10X2=20**

- 16). ASHA
- 17). Sub-centre
- 18). Foot care in Diabetes Mellitus
- 19). Tracking of BP
- 20). Vaccine carrier
- 21). DDT
- 22). Dead end disease
- 23). Incubatory carriers
- 24). Treatment of Paucibacillary leprosy
- 25). Resources

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Medical X- Ray Technology/ III Year Certificate course**  
**in Medical X- Ray Technology**  
**RADIOGRAPHY INCLUDING RADIOLOGY PHYSICS, (N.S) R-I**  
**QP CODE – 3121**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Describe the various types of interactions between X-rays and matter. Add a note on differences between Compton and photoelectric effects.
- 2) Describe in detail the structure of a radiographic film. Add a note on storage of exposed and unexposed films.
- 3) What is radio-activity? Describe in detail the various radioactive events occurring in radiography.

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

**10 x 5 = 50**

- 4) Ionization chamber
- 5) Automatic exposure control
- 6) Focused and unfocused grids
- 7) Half value layer
- 8) Radiographic contrast and spatial resolution
- 9) Actual and effective focal spot
- 10) Properties of a good anode target
- 11) Absorbed dose and equivalent dose
- 12) Characteristic radiation
- 13) Rectification.
- 14) Dark room processing
- 15) Mammography film

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Film speed
- 17) Ionizing radiation
- 18) Seivert
- 19) Linear attenuation coefficient
- 20) Beta decay
- 21) Binding energy
- 22) Film washing
- 23) Stationary Anode
- 24) Film hangers
- 25) Inverse square law

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Medical Records Technology/ III Year Certificate**  
**course in Medical Records Technology**  
**MEDICAL TERMINOLOGY**  
**QP CODE – 3141**  
**MEDICAL TERMINOLOGY**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER THE FOLLOWING**

**3 x 5 = 15**

- 1) What is the Purpose of studying Medical Terminology ?
- 2) What are the Chief sources of Medical Terminology ? Give one example for each.
- 3) Define word root, combining form and suffixes.
- 4) Name the five anatomical divisions of abdomen.
- 5) What are the basic rules for building and defining Medical words.

**6. GIVE THE MEANING FOR THE FOLLOWING**

**1x 5 = 5**

- a) Leucos
- b) Erythros
- c) Polios
- d) Melan
- e) Xanthos

**7. WRITE THE PHOBIAS FOR THE FOLLOWING**

**1 x 10 = 10**

- |                          |                      |
|--------------------------|----------------------|
| 1) Fear of Great heights | 6) Fear of Self      |
| 2) Fear of Doctor        | 7) Fear of pain      |
| 3) Fear of Blood         | 8) Fear of nakedness |
| 4) Fear of Death         | 9) Fear of marriage  |
| 5) Fear of bacteria      | 10) Fear of Dogs     |

**8. WRITE THE MEANING FOR THE FOLLOWING**

**1 x 15 = 15**

- |               |                 |
|---------------|-----------------|
| 1) ante       | 9) hand         |
| 2) de         | 10) tear        |
| 3) dis        | 11) bis         |
| 4) intra      | 12) ecto        |
| 5) protrusion | 13) dilatation  |
| 6) a falling  | 14) stabilizing |
| 7) rupture    | 15) hip bone    |
| 8) suture     |                 |

**9. MATCH THE FOLLOWING**

**1 x 5 = 5**

- |         |            |
|---------|------------|
| a) Tri  | Two        |
| b) Deca | Eight      |
| c) Unus | Three      |
| d) Duo  | Ten        |
| e) Octo | One        |
|         | One & Half |

**14. WRITE THE CORRECT MEDICAL TERMS**

**1X10 = 10**

- a) Aspiration of Pleural cavity
- b) Removal of Ovary
- c) Fixation of tendon to the end of the bone
- d) Incision into kidney for removal of stones
- e) Pain in the joints
- f) Destruction of muscular tissue
- g) Hardening of the gland
- h) Crushing of fetal head in dystocia
- i) Inflammation of lips
- j) Softening of cartilage.

**15. Differentiate the following terms**

**1 x 5 = 5**

- a) Antiseptic and aseptic
- b) Cornea and cranial
- c) Palpitation and palpation
- d) Lymphadenitis and Lymphangitis
- e) Ileum and Ilium

**16. Define the following**

**1x10=10**

- a) Osteodystrophy
- b) Cholecystitis
- c) Cholangitis
- d) Hysterectomy
- e) Thrombophlebitis
- f) Osteoma
- g) Nephrolithotomy
- h) Proctoscopy
- i) Pyelonephritis
- j) Trachelorrhaphy

**17. Define the Following**

**1x5=5**

- a) Odontology.
- b) Dermatologist
- c) Gynaecologist
- d) Gastroenterologist
- e) Geriatrics.

**18. Expand the following abbreviations**

**1x10=10**

- a) A.O.D. M
- b) UTI
- c) KUB
- d) ROM
- e) CHD
- f) MDP
- g) CPR
- h) SARS
- i) AION
- j) LSCS

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Dental Mechanics / III Year Certificate course in**  
**Dental Mechanics**  
**COMPLETE DENTURES (N.S)**  
**QP CODE – 3171**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**I. LONG ESSAY**

**1 x 10 = 10**

- 1) Describe in detail the principles of teeth arrangement

**II. WRITE SHORT NOTES**

**5 x 5 = 25**

- 2) Compensatory curve
- 3) Fabrication of special tray
- 4) Cast preparation and trimming
- 5) Protrusive balance
- 6) Compression moulding technique

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

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

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**PARAMEDICAL BOARD, BANGALORE**  
**SUPPLEMENTARY , EXAMINATION MAY- 2015**  
**II Year Diploma in Dental Hygiene / III Year Certificate course in**  
**Dental Hygiene**  
**DENTAL HYGIENE & ORAL PROPHYLAXIS (N.S)**  
**QP CODE – 3181**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**I. Long essay**

**1x 10=10**

- 1) Define and classify Dental plaque. Describe mechanical plaque control measures.

**II. Write short notes**

**5 x 5 =25**

- 2) Theories of mineralization of calculus.
- 3) Ultrasonic scalers.
- 4) Intrinsic and extrinsic stains.
- 5) Clinical features gingivitis.
- 6) Functions of Periodontal ligament.

**III. Write short answers**

**2 x 5 = 10**

- 7) Dental floss
- 8) Gingival abscess
- 9) Disclosing agents
- 10) Oral cancer
- 11) Gingival sulcus.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in OT Technology/ III Year Certificate course in**  
**OT Technology**  
**ANAESTHESIA & ALLIED TOPICS (N.S)**  
**QP CODE – 3131**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Describe preparation and procedure of spinal anaesthesia.
- 2) Describe the preparation of a patient posted for laproscopic appendicectomy.
- 3) Describe the steps of Basic Life Support (BLS)

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

**10 x 5 = 50**

- 4) Blood Grouping and typing
- 5) Fumigation
- 6) Halothane
- 7) Tracheostomy.
- 8) Propofol.
- 9) Oropharyngeal airway
- 10) Trendelenburg position.
- 11) Vicarious liability.
- 12) Pulse Oxymeter
- 13) Ropivacaine
- 14) Ephedrine
- 15) Vecuronium.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Proctoscope
- 17) Venesection
- 18) Suction apparatus
- 19) Anaphylaxis
- 20) Scoline
- 21) Tonsillectomy
- 22) Cystoscopy
- 23) Aspiration
- 24) Epidural needle
- 25) Varicose vein stripping.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May 2015**  
**II Year Diploma in Dialysis Technology/ III Year Certificate course in**  
**Dialysis Technology**  
**FUNDAMENTALS OF HAEMODIALYSIS & COMPONENTS (N.S)**

**QP CODE - 3151**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Describe in detail about hemodiafiltration and Hemofiltration inducing benefits and risks.
- 2) Describe in detail about major steps involved in dialyzer Reprocessing Technique
- 3) Describe in detail about methods of purifying water for hemodialysis.

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

**10 x 5 = 50**

- 4) Advantages of CRRT
- 5) Signs of clotting in the extracorporeal circuit.
- 6) Disequilibrium syndrome
- 7) Strategy to prevent hypotension during dialysis.
- 8) Monitors and alarms in blood circuit.
- 9) Thrombosis in A-V fistula causes and management.
- 10) Causes and treatment of venous catheter dysfunction
- 11) Composition of standard hemodialysis solution.
- 12) Ultrapure dialysis solution.
- 13) Causes and Management of low venous pressure.
- 14) Ultrafiltration
- 15) Indicators for initiation of RRT.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Two causes of Chronic kidney disease (CKD)
- 17) Two advantages of dialyzer reuse
- 18) Two Complications of Aluminium
- 19) Two drugs used in Hypertension
- 20) Normal blood levels of Calcium and Magnesium.
- 21) Two types of EPO used in dialysis patients.
- 22) Two causes of metabolic acidosis.
- 23) Two complications of metabolic alkalosis.
- 24) Two anticoagulants used in hemodialysis.
- 25) Two causes of vomiting during Hemodialysis.

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**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, May 2015**  
**Common paper for all I year Certificate Courses**  
**PHYSICS**  
**QP CODE - 1101**

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**1 x 10 = 10**

- 1) Define energy. State the law of conservation of energy and explain with respect to free falling bodies.
- 2) What is nuclear reactor ? Briefly explain the principles of nuclear reactor. Draw schematic diagram of nuclear and label the parts, mention the uses of nuclear reactors.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- 3) Law of conservation of Momentum.
- 4) Ultrasonic properties and uses
- 5) Thermal radiation.
- 6) Satellite
- 7) Reflection of light
- 8) Boyle's law
- 9) Electromagnetic induction.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Define C.G.S and S I system
- 11) Acceleration
- 12) Viscosity
- 13) Properties of Cathode rays.
- 14) Types of Semi-conductors.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May -2015**  
**FIRST DPT – ANATOMY**  
**QP CODE – 2191**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Name the parts of male reproductive system. Describe testis in detail.
- 2) Name the parts of gastrointestinal system. Describe liver in detail.
- 3) Name the parts of urinary system. Describe kidney in detail.

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

**10 x 5 = 50**

- 4) Pituitary gland
- 5) Left Ventricle
- 6) Histology of spleen.
- 7) Trachea
- 8) Sternocleidomastoid muscle
- 9) Uterus
- 10) Abdominal aorta
- 11) Histology of ovary
- 12) Coronary arteries
- 13) Transitional epithelium
- 14) Tongue
- 15) Colon

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Parotid duct
- 17) Name the openings in right atrium
- 18) Name 4 tarsal bones
- 19) Name 4 cranial nerves
- 20) Name the structures at hilum of left lung
- 21) Name the endocrine glands
- 22) Name 4 muscles of upper limb
- 23) Name 4 bones of skull
- 24) Name 3 gross features of large intestine
- 25) Name 2 muscles of middle ear.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May -2015**  
**III DPT – SPORTS SCIENCE & PHYSIOTHERAPY**  
**QP CODE – 3201**

**Time: 2 hrs**

**Max. Marks: 65**

**I. Long Essay - Answer any FOUR**

**4 x 10 =40**

- 1) Discuss the general etiology, psychology and ergonomical considerations of Sports injuries
- 2) Physical educational training for the rural population
- 3) How do you organize and manage the popularization of physical culture and sports event?
- 4) Fitness testing principles after injury treatment
- 5) Role of Physiotherapist in sports injuries

**II. Write short notes on any FIVE**

**5 x 5 = 25**

- 6) General evaluation of sports person
- 7) Principles of physical education
- 8) Various types of propaganda
- 9) Health improving forms
- 10) ACL tear
- 11) First aid training

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May -2015**  
**III DPT – PHYSIOTHERAPY IN SURGICAL CONDITIONS**  
**QP CODE – 3205**

**Time: 2 hrs**

**Max. Marks: 65**

**I. Long Essay - Answer any FOUR**

**4 x 10 =40**

- 1) Write the common abdominal surgeries. Explain the pre-operative and post operative physiotherapy evaluation and management of common abdominal surgeries
- 2) Discuss in detail about cardiac rehabilitation programme
- 3) Write the importance of physiotherapy in ICU
- 4) Write the general clinical features of diseases and disorders of the respiratory system and write a note on LFT
- 5) Discuss in detail about Deep Vein Thrombosis (DVT).

**II. Write short notes on any FIVE**

**5 x 5 = 25**

- 6) Hemipelvectomy
- 7) Postural drainage
- 8) Physiotherapy for skin graft
- 9) Dyskinesia
- 10) Stress incontinence
- 11) Lobectomy

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May-2015**  
**II Year Certificate course/ I Year Diploma in Ophthalmic Technology**

**PAPER – I**  
**QP CODE 2161**

**Time: 3 hrs**

**Max. Marks: 90**

**I. LONG ESSAY – ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Describe Anatomy of the eye with a neat labeled diagram.
- 2) What is Myopia? Discuss its types and management.
- 3) Define visual acuity. Discuss the principles for testing vision.

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

**10 x 5 = 50**

- 4) Mention the types of Astigmatism? How do you manage?
- 5) Keratometer
- 6) Retinoscopy
- 7) Lantern test
- 8) Presbyopia
- 9) What are Prisms? Where are they used?
- 10) Binocular single vision.
- 11) Transposition of lenses
- 12) Mention layers of Cornea and its functions.
- 13) Total internal reflection
- 14) Stenopaeic slit
- 15) Chromatic aberration.

**III. Write short answers**

**10 x 2 = 20**

- 16) Pinhole
- 17) Inter-pupillary distance and its importance
- 18) Name few mydriatics
- 19) Accommodation
- 20) Contrast sensitivity
- 21) Maddox rod
- 22) Types of Bifocals
- 23) Asthenopia
- 24) Ishihara chart
- 25) Contraindications for the use of contact lenses.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May-2015**  
**I Year Diploma in Medical Laboratory Technology /II Year Certificate**  
**course**

**Time: 3 hrs**

**Max. Marks: 90**

**Note: Write section A & Section B in separate answer books.**

**Section- A, ANATOMY: QP CODE – 2101**

**I. Long Essay – Answer any ONE**

**1 x 10=10**

- 1) Name the parts of gastrointestinal system. Describe stomach in detail.
- 2) Mention the parts of central nervous system. Describe superolateral surface of cerebral hemisphere.

**II. Write short notes on any FIVE**

**5 x 5 =25**

- |                        |                          |
|------------------------|--------------------------|
| 3) Histology of spleen | 7) Abdominal aorta       |
| 4) Thyroid gland       | 8) Coronary arteries     |
| 5) Left Lung           | 9) Biceps brachii muscle |
| 6) Gall bladder        |                          |

**III. Write short answers**

**5 x 2=10**

- |   |   |
|---|---|
| 10) Name 4 muscles of lower limb                | 13) Name 4 carpal bones                   |
| 11) Name the parts of brain stem.               | 14) Name the structures at hilum of lung. |
| 12) Name the layers of epithelium of thick skin |   |

**Section- B, PHYSIOLOGY (Write in separate answer book)**  
**QP CODE – 2102**

**I. Long Essay – Answer any ONE**

**1 x 10=10**

- 1) Classify WBCs and write their functions.
- 2) Name anterior pituitary hormones and write their functions.

**II. Write short notes on any FIVE**

**5 x 5 =25**

- 3) Artificial respiration
- 4) Abnormal constituents of urine
- 5) Temporary family planning methods
- 6) Structure and functions of middle ear
- 7) Functions of Cerebellum
- 8) Cardiac output

**III. Write short answers**

**5 x 2=10**

- |                            |                              |
|----------------------------|------------------------------|
| 9) Normal platelet count   | 12) What is Hypoxia?         |
| 10) Describe the ECG waves | 13) Name the plasma proteins |
| 11) Cretinism              |                              |

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May-2015**  
**I Year Diploma in Medical X- Ray Technology / II Year Certificate course**  
**GENERAL PHYSICS**  
**QP CODE- 2121**

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**1 x 10 = 10**

- 1) Explain with neat diagram- Construction and working of modern X-ray tube, factors affecting X-ray emission, methods of cooling and basic X-ray circuit
- 2) Write a note on semiconductors- definition, types, P-N junction diode, half and full wave rectification.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- 3) Electromagnetic waves
- 4) Luminescence
- 5) Explain artificial radioactivity and uses of radioactive nuclides in medicine
- 6) General radiation
- 7) Photoelectric effect
- 8) Molybdenum filter

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Radioactive disintegration law
- 10) Half value layer
- 11) Kirchoff's law
- 12) Saturation voltage
- 13) Atomic number

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May -2015**  
**I Year Diploma in Medical Records Technology / II Year Certificate course**  
**MEDICAL RECORD SCIENCE (MRS)**  
**QP CODE – 2141**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Explain the Organization and management of MRD.
- 2) Explain the functions of MRD
- 3) What are the general exceptions under IPC? Explain

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

**10 x 5 = 50**

- 4) Types of indexes maintained in MRD and their purposes.
- 5) Duties and responsibilities of MRO
- 6) Benefits of getting printed medical record forms.
- 7) Flow chart of in-patient records
- 8) Types of filing systems and retrieval procedure of medical records
- 9) Medical Audit committee and its importance
- 10) Persons exempted from personal appearance in court of law
- 11) Burden of proof and when does the burden of proof lies on the accused
- 12) Estoppel and Promissory Estoppel
- 13) Rights of an accused person
- 14) Rules for birth and death register
- 15) Qualitative and Quantitative analysis

**III. WRITE SHORT ANSWERS**

**10 x 2=20**

- 16) DAMA
- 17) Operation index
- 18) Death Register
- 19) Admission Register
- 20) Hospital Census
- 21) Plaintiff
- 22) Pleader
- 23) Public officer
- 24) Cross examination
- 25) Acquittal

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May-2015**  
**I Year Diploma/II Certificate Course in DENTAL MATERIAL AND**  
**METALLURGY (N.S)**  
**QP CODE – 2171**

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**1 x 10 = 10**

- 1) What is additional polymerization? Describe in detail the physical stages of polymerization reaction.
- 2) Classify gypsum products and describe in detail about type II gypsum product

**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) Mention different types of separating media.
- 11) Crazeing
- 12) Imbibition and Syneresis
- 13) Electrodeposition
- 14) Die

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May-2015**  
**I Year Diploma/II Certificate Course in Dental Hygiene**  
**GENERAL ANATOMY, HISTOLOGY AND GENERAL PHYSIOLOGY**

**Note: Write section A & Section B in *separate* answer books**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**Section- A, GENERAL ANATOMY & HISTOLOGY (write in separate answer book)**

**QP CODE – 2181**

**I. Long Essay – Answer any ONE**

**1x 9=9**

- 1) Describe Temporomandibular joint in detail
- 2) Name dural venous sinuses. Describe cavernous sinus in detail.

**II. Write short notes on any TWO**

**2x 5 =10**

- 3) Pituitary gland
- 4) Histology of compact bone
- 5) Tongue

**III. Write short answers**

**3 x2 =6**

- 6) Name 2 muscles of neck
- 7) Name 2 muscles of hard palate
- 8) Name 4 bones of skull

**Section – B, GENERAL PHYSIOLOGY (write in separate answer book)**

**QP CODE – 2182**

**I. Write short notes on any FOUR**

**4 x 4 =16**

- 1) Functions of Leucocytes
- 2) Composition and functions of Saliva
- 3) Errors of refraction
- 4) Draw a labeled diagram of conducting system of heart
- 5) Functions of Calcitonin
- 6) Landsteiner's Law

**II. Write short answers**

**2 x2 = 4**

- 7) Normal values of BP and Pulse rate
- 8) Bleeding time and clotting time values.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May -2015**  
**I Year Diploma in OT Technology /II Year Certificate course**  
**FUNDAMENTALS OF OT TECHNOLOGY & BASIC CONCEPTS IN SURGERY**  
**(N.S)**

**QP CODE - 2131**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Describe preliminary preparation of a patient in the pre-operative room. Write a note on duties of scrub nurse and circulating nurse
- 2) Describe an ambulatory surgical care facility. What is the role of a nursing personnel in the management of an ambulatory surgical patient?
- 3) Describe Manifold room concept. Explain the supply of gases to the OR and scavenging gases.

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

**10 x 5 = 50**

- 4) Define sterilization. What are the principles of sterilization?
- 5) Techniques of preservation of specimens to be sent for Histopathological Examination (HPE) /Microbiology
- 6) Necessity for standardized procedures
- 7) Post-operative patient monitoring.
- 8) Ultrasonography
- 9) Surgical site infections.
- 10) Indications and contraindications for Circumcision.
- 11) Appendectomy
- 12) Physical layout in the OR
- 13) Advantages and disadvantages of open abdominal and laparoscopic surgeries
- 14) Technique of draping.
- 15) Sterilization of OR equipment.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Bioburden.
- 17) Universal precautions in Surgery
- 18) Surgical Scrubs
- 19) Two commonly used suturing techniques
- 20) Nasogastric intubation- Uses
- 21) Electrical hazards in the OR and safeguards
- 22) Importance of keeping sharp instrument count
- 23) Factors affecting wound healing.
- 24) Flash sterilization.
- 25) Parameters of Sterilization.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, May -2015**  
**I Year Diploma in Dialysis Technology /II Year Certificate course**  
**PHARMACOLOGY AND THEORY OF DIALYSIS (NS)**

**Note: Write Section A and B in separate answer books**

**Time: 3 hrs**

**Max. Marks: 90**

**SECTION – A, PHARMACOLOGY (Write in separate answer book)**

**QP CODE- 2151**

**I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Classify Diuretics. Write the uses and adverse effects of Furosemide.
- 2) Enumerate the route of Drug Administration with examples. Write the advantages and disadvantages of oral route.

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- |  |                |
|--|----------------|
| 3) Aspirin.                              | 6) Gentamycin. |
| 4) Heparin.                              | 7) Diazepam.   |
| 5) Define disinfectant with two examples | 8) Insulin.    |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Name two uses of Vitamin D
- 10) Write two Nephrotoxic drugs.
- 11) Mention two iron preparations used in Anemia.
- 12) Define Pharmacokinetics.
- 13) Give the meaning of abbreviation- QID, BID

**SECTION – B, THEORY OF DIALYSIS (Write in separate answer book)**

**QP CODE - 2152**

**I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Write in detail about records maintained in Dialysis unit
- 2) Preparation of Product water and Hemodialysis solution

**II. WRITE SHORT NOTES ON ANY FIVE**

**5 x 5 = 25**

- |  |                               |
|--|-------------------------------|
| 3) Reverse Osmosis.                        | 6) Access Recirculation.      |
| 4) Stages of Chronic Kidney Disease (CKD). | 7) Sodium modeling            |
| 5) Proteinuria.                            | 8) Interdialytic weight gain. |

**III. WRITE SHORT ANSWERS ON ANY FIVE**

**5 x 2 = 10**

- 9) Normal blood levels of Bicarbonate and Magnesium
- 10) Two types of Dialyzers
- 11) Two causes of AKI.
- 12) Two complications of Central venous catheterization.
- 13) Two causes of Headache during dialysis
- 14) Name two anticoagulants used in dialysis