

# **PARAMEDICAL BOARD, BANGALORE**

**Annual Examination, October 2015**

**II DPT – PATHOLOGY**

**QP CODE – 3191**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essays – (Answer any THREE)**

**3 x 10=30**

- 1) Define fracture . Discuss healing of fracture and factors affecting it.
- 2) Define Pneumonia. Write the causes, pathology and types of pneumonia.
- 3) Discuss differences between Benign and Malignant tumors
- 4) What are the fat soluble Vitamins ? Write in detail about the manifestation of Vitamin A deficiency.

**II. Short Essay(Answer any TWELVE)**

**12 x 5= 60**

- 5) Ulcers of the Intestine
- 6) Air embolism
- 7) Chemotaxis
- 8) Pott's Spine
- 9) Myasthenia gravis
- 10) Classification of Leprosy
- 11) Define Shock and its type
- 12) Giant cell tumor
- 13) Fatty Liver
- 14) Hyperthyroidism
- 15) Vascular events in acute inflammation
- 16) CSF findings in TB meningitis
- 17) Define Edema and write a note on Cardiac edema

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October- 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) Discuss in detail the preoperative workup of a patient for Cataract surgery
- 2) Describe the preparation of trolley for a Pterygium surgery
- 3) Describe in detail the procedure of disinfection of an operation theatre

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

**10 x 5 = 50**

- 4) Epilation
- 5) Discuss errors of keratometry
- 6) Uses of Synaptophore
- 7) Importance of fundus examination while prescribing glasses
- 8) Causes of faint fundal glow on Retinoscopy
- 9) Various types of Tonometer
- 10) Various methods of neutralization of lenses
- 11) Various types of Retinoscopes. Add a note on maintenance of streak Retinoscope.
- 12) Importance of cutting of eyelashes prior to surgery
- 13) Describe the procedure of Enucleation of donor eye
- 14) Back vertex distance- Its importance and measurement
- 15) Optical condition for 'with' movement with plane mirror on retinoscopy at 1 metre

**III. Write short answers**

**10 x 2 = 20**

- 16) Indications for subconjunctival injection
- 17) Indications for bandaging of the eye
- 18) Various types of preservatives for donor eye collection
- 19) Compare eye drops with ointment
- 20) Uses of slit lamp
- 21) Contraindications for eye donation
- 22) Symptoms of uncorrected refractive error
- 23) Maintenance of contact lenses
- 24) Complications of chalazion
- 25) Tinted lenses

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October-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 Marks**

1. Explain in detail the importance of recording patient data during sample registration in the laboratory. How will it help in reporting of patient results?
2. Describe in detail the importance of quality control and its uses in laboratory.
3. Describe in detail Liver function tests and its uses in detecting disorders.

**II. Short Essay on any Ten**

**10 x 5 = 50 Marks**

4. Abnormal constituents of urine
5. Write in brief about urea cycle and its importance
6. Clearance tests and its importance
7. Write in brief about Venepuncture. What are the precautions taken during venepuncture
8. Name the non-protein substances present in urine sample. Explain the tests done to detect the substances in urine.
9. Write in brief about digestion and absorption of dietary lipids in our body
10. Ion Selective Electrodes (ISE) and its applications
11. Explain the role of technician in receipt, maintenance and stock of reagent kits in the laboratory.
12. Describe in brief Glycogenesis and its importance
13. Write in brief about Chromatography and its applications in Clinical biochemistry
14. Write in brief about Semi-autoanalyser and its uses
15. Write in brief about the constituents of gastric juice and its importance

**III. Short Answers**

**10 x 2 = 20 Marks**

16. Name ketone bodies. What tests are done to detect ketone bodies in urine?
17. What is the reference range for  
A) Serum total Protein      B) Serum Albumin
18. Name two hormones that regulate blood glucose level
19. Name two tests done to detect Myocardial infarction.
20. Mention any two uses of Enzyme Linked Immunosorbent assays (ELISA)
21. What is the normal reference range of Serum Calcium? What method is used to estimate Serum Calcium?
22. Mention any two essential Amino acids
23. Seliwanoffs test and its importance
24. Mention any two types of electrophoresis
25. Name two enzymes required for digestion of dietary proteins.

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**PARAMEDICAL BOARD , BANGALORE**  
**ANNUAL EXAMINATION, OCTOBER– 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**

**2 X 10 = 20**

1. Discuss in detail the steps involved in the investigation of Food poisoning in hostel. What measures do you take to control the same?
2. What are the causes of Hypertension? How do you control Hypertension in the community?
3. Define primary health care. Briefly describe the elements and principles of primary health care.

**II Write short notes on any TEN**

**10 X 5 = 50**

- 4 Prevention of Neonatal tetanus
- 5 Road traffic accidents- causes and prevention
- 6 Pulse polio programme
- 7 Hazards of Obesity
- 8 Oral rehydration therapy
- 9 Prevention of AIDS
- 10 Danger signals of cancer
- 11 DOTS
- 12 Vision 2020
- 13 Prevention of Hepatitis B
- 14 Measles vaccine
- 15 First aid in dog bite

**III Write short answers**

**10 X 2 = 20**

16. Man made Malaria
17. Mention any four zoonotic diseases
18. Nosocomial infection
19. Vaccine vial monitor
20. Treatment of filariasis
21. Mention any four organisms causing diarrhea
22. Dead end disease
23. BCG( Bacillus Calmette-Guerin)
24. What is self-care in Diabetes mellitus?
25. Universal precautions

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# PARAMEDICAL BOARD, BANGALORE

Annual examination, October- 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) How does radiation interact with matter. Explain photoelectric effect in detail.
- 2) What are grids? Define grid ratio. Write in detail about their types and uses.
- 3) Describe effects of radiation on human body. Add a note on permissible dose.

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

**10 x 5 = 50**

- 4) TLD Badge (Thermoluminescent dosimeter)
- 5) The autotransformer
- 6) Full wave rectification
- 7) Collimators
- 8) Barium swallow
- 9) Explain briefly the steps in film processing
- 10) Safe light
- 11) Alpha decay
- 12) Radio pharmaceuticals
- 13) Compton scattering
- 14) Latent image
- 15) CR( Computed Radiology) and DR ( Digital Radiology)

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Phototimer
- 17) Film Fog
- 18) Mass miniature radiography
- 19) PACS( Picture Archiving & Communication System)
- 20) Maximum permissible dose
- 21) Tungsten
- 22) Cones
- 23) K edge
- 24) Moving grids
- 25) Three phase generators

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October 2015**  
**II Year Diploma in Medical Records Technology/ III Year Certificate**  
**course in Medical Records Technology**

**MEDICAL TERMINOLOGY**

**QP CODE - 3141**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER THE FOLLOWING**

**3x5=15**

1. What are the objectives of Medical Terminology?
2. Basic concept of Medical Terminology
3. What are the purposes of study of Medical Terminology?

**II. GIVE THE MEANING OF THE FOLLOWING PREFIXES**

**5x1= 5**

1. Astro
2. Blephar
3. Brady
4. Cyst
5. Crani

**III. GIVE THE PHOBIAS OF THE FOLLOWING**

**10 X 1= 10**

- |             |               |
|-------------|---------------|
| 1. Marriage | 6. New things |
| 2. Smell    | 7. Children   |
| 3. Eating   | 8. Vehicle    |
| 4. Spider   | 9. Darkness   |
| 5. Fish     | 10. Men       |

**IV. DIFFERENTIATE THE FOLLOWING TERMS**

**5x2=10**

1. Corneal, Cranial
2. Stasis, Staxis
3. Morbid, Morbidity
4. Aural, Oral
5. Palpation, Palpitation

**V. WRITE THE MEANING OF THE FOLLOWING ROOTS.**

**10x1=10**

- |          |           |
|----------|-----------|
| 1) Osteo | 6) Gastr  |
| 2) Nephr | 7) Pneum  |
| 3) Myo   | 8) Leuk   |
| 4) Hepat | 9) Derm   |
| 5) Angio | 10) Prock |

**VI. WRITE THE MEANING OF THE FOLLOWING SUFFIXES.**

**5X1=5**

- 1) Cele
- 2) Osis
- 3) Itis
- 4) Phasia
- 5) Rhexis

**VII. MATCH THE FOLLOWING**

**1X5=5**

- |           |    |             |
|-----------|----|-------------|
| 1) Nephar | -- | Liver       |
| 2) Prock  | -- | Of the mind |
| 3) Hepat  | -- | Kidney      |
| 4) Peri   | -- | Rectum      |
| 5) Psych  | -- | around      |

**VIII. GIVE THE MEDICAL TERMS.**

**10X1=10**

- 1) Black stools in adult
- 2) Abnormal decrease of RBC
- 3) Difficulty in swallowing
- 4) Stone in Kidney
- 5) Loss of sensation
- 6) Rupture of the uterus
- 7) Excision of Tongue
- 8) Pain in lumber region
- 9) Sugar in blood
- 10) Fat in the blood

**IX EXPAND THE FOLLOWING ABBREVIATIONS**

**1X10=10**

- 1) AIDS
- 2) BBB
- 3) IUP
- 4) ESR
- 5) IOL
- 6) RA
- 7) MRI
- 8) HBV
- 9) LFT
- 10) ABG

**X. GIVE THE MEANING FOR THE FOLLOWING COLOURS**

**5X1=5**

- 1) Flavus
- 2) Candidus
- 3) Albus
- 4) Polios
- 5) Cyaneus

**XI. GIVE THE MEANING FOR THE FOLLOWING NUMBERS.**

**5X1=5**

- 1) Bini
- 2) Octo
- 3) Deca
- 4) Monus
- 5) Tri

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October- 2015**  
**II Year Diploma in Dental Mechanics/ III Year**  
**Certificate course in Dental Mechanics**  
**COMPLETE DENTURES**  
**QP CODE - 3171**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

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

**1 x 10 = 10**

- 1) Classify articulators and mention the uses and mean values of a mean value articulator

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

**5 x 5 = 25**

- 2) Posterior teeth forms
- 3) Mention the uses and materials used in fabrication of occlusal rims
- 4) Cast preparation and trimming
- 5) Difference between acrylic and porcelain teeth
- 6) Immediate dentures

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 7) Beading and Boxing
- 8) Ceramic teeth
- 9) Special tray
- 10) Rebasing
- 11) Curve of Spee

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October -2015**  
**II Year Diploma in Dental Hygiene / III Year Certificate course in**  
**Dental Hygiene**  
**DENTAL HYGIENE AND ORAL PROPHYLAXIS**  
**QP CODE - 3181**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**I. Long essay**

**1 x 10 =10**

- 1) Define calculus. Describe theories of mineralization of Calculus.

**II. Write short notes**

**5 x 5 =25**

- 2) Microorganisms in Periodontal disease  
3) Define sterilization. Mention different types of Sterilization.  
4) Organic & Inorganic contents of Calculus  
5) Clinical features of Periodontitis  
6) Indices that measure oral hygiene status

**III. Write short answers**

**5 x 2 = 10**

- 7) Definition of Plaque  
8) Periodontal Abscess  
9) Gingival fibers  
10) Interdental gingiva  
11) Periodontal Pocket

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October 2015**  
**II Year Diploma in OT Technology/ III Year Certificate course in**  
**OT Technology**  
**ANAESTHESIA AND ALLIED TOPICS(N.S)**  
**QP CODE - 3131**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Explain the steps of checking anaesthesia machine and arranging drugs trolley.
- 2) Describe the preparation of a 25 year old young patient posted for fracture neck of humerus.
- 3) Enumerate the different blood groups. Add a note on transfusion reactions.

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

**10 x 5 = 50**

- 4) Pasteurization
- 5) Laryngeal Mask Airway(LMA)
- 6) Halothane
- 7) Tracheostomy
- 8) Thiopentone
- 9) Guedel's airway
- 10) Lithotomy position
- 11) Vicarious liability
- 12) Pulse oxymeter
- 13) Levobupivacaine
- 14) Ephedrine
- 15) Vecuronium

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Stylet
- 17) Consent
- 18) Foley's catheter
- 19) Sims Position
- 20) Adrenaline
- 21) Ondansetron
- 22) Endoscopy
- 23) Ryle's tube
- 24) Spinal needle
- 25) Incision and drainage

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination. May-2015**  
**II Year Diploma in Dialysis Technology/ III Year**  
**Certificate course in Dialysis Technology**  
**FUNDAMENTALS OF HAEMODIALYSIS AND COMPONENTS (N.S)**  
**QP CODE - 3151**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Describe in detail regarding Basics of Hemodiafiltration including advantages and disadvantages with different modes of Hemodiafiltration.
- 2) Describe in detail regarding Dialysis solution preparation including Disinfection of Machine
- 3) Describe in detail acute complications during dialysis and its management

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

**10 x 5 = 50**

- 4) Online Hemodiafiltration
- 5) Initiation of Hemodialysis
- 6) Monitoring and surveillance of AVF
- 7) Monitors and Alarms in dialysis
- 8) Regional anticoagulation
- 9) Ultrapure dialysate
- 10) Catheter related blood stream infection
- 11) Dialyzer reuse
- 12) Therapeutic Apheresis
- 13) Techniques of AVF Cannulation
- 14) Intradialytic hypertension
- 15) Dialyzer reactions

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Two drugs used in hypertension
- 17) Two antibiotics used in catheter related blood stream infections
- 18) Two causes for nausea during dialysis
- 19) Two indications for stopping dialysis
- 20) Two types of EPO
- 21) Two drugs used in Heparin induced Thrombocytopenia
- 22) Normal levels of serum sodium and Pottasium
- 23) Two disinfectants used in dialysis
- 24) Two drugs which are dialysable
- 25) Two drugs used in secondary Hyperparathyroidism

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**PARAMEDICAL BOARD BANGALORE**  
**Annual Examination, OCTOBER 2015**  
**Common paper for all I year Certificate Courses**  
**PHYSICS**  
**(OLD & NEW SCHEME)**  
**QP CODE 1101**

**Time: 1 ½ hrs**

**Max. Marks: 45 (New Scheme)**

**40 (Old Scheme)**

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

**1 x 10 = 10**

- 1) State and Explain Newton's laws of motion.
- 2) What is PN junction ? Explain the biasing of PN junction.

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

**5 x 5 = 25(NS) 5 x 4 = 20(OS)**

- 3) Work
- 4) Reflection
- 5) Transverse and Longitudinal waves
- 6) Transformers
- 7) Cathode rays
- 8) Coulomb's Law
- 9) Semiconductor

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Lenses
- 11) Surface tension
- 12) Rectifiers
- 13) Dimensions
- 14) Thermometers.

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October -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 the human Respiratory system. Describe both lungs.
- 2) Name the parts of the Urinary system. Describe kidney in detail.
- 3) Name the parts of Female reproductive system. Describe Uterus in brief.

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

**10x 5 =50**

- 4) Thyroid gland
- 5) Testis
- 6) Liver
- 7) Histology of trachea
- 8) Deltoid muscle
- 9) Abdominal aorta
- 10) Eyeball
- 11) Histology of tongue
- 12) Synovial joint
- 13) Cerebrum
- 14) Broncho-pulmonary segments
- 15) Quadriceps femoris muscle

**III. Write short answers**

**10 x 2 =20**

- 16) Name the parts of Long bone
- 17) Name four muscles of upper limb
- 18) Mention the structures at hilum of Right lung
- 19) Name the ear ossicles
- 20) Name four carpal bones
- 21) Mention the arterial blood supply to thyroid gland
- 22) Name the three Salivary glands
- 23) Name the three types of Cartilages
- 24) Mention two features of Large intestine
- 25) Mention two features of Skeletal muscle

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October -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) Role of Physiotherapist in sports injuries
- 2) What is Tennis elbow? Explain Patho-mechanism, clinical features and rehabilitation programme for the same.
- 3) Write on the principles of immediate First aid and treatment
- 4) Write in detail about Anterior Cruciate Ligament (ACL) tear. Discuss pre and post operative rehabilitation.
- 5) Write in detail about the principles of physical education.

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

**5 x 5 = 25**

- 6) First aid for fracture patient on the field
- 7) Achilles tendon
- 8) Rotator cuff injury
- 9) Golfer's elbow
- 10) Plantar Fascitis
- 11) Sprain and strain

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October- 2015

**I Year Diploma in Ophthalmic Technology/ II Year Certificate course 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 the parts of the Eye ball with diagram.
- 2) Discuss circulation of Aqueous humour
- 3) Discuss aphakia and its correction.

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

**10 x 5 = 50**

- 4) Presbyopia and its correction
- 5) Importance of pinhole testing
- 6) Spherical aberration
- 7) Uses of Prisms
- 8) Principles of Retinoscopy
- 9) Principles of indirect Ophthalmoscope
- 10) Tests for Color vision
- 11) Astigmatism
- 12) Keratometry
- 13) Transposition of lenses
- 14) A-Scan
- 15) Uses of contact lenses

**III. Write short answers**

**10 x 2 = 20**

- 16) Lantern test
- 17) Ishihara chart
- 18) Name two Mydriatics used in Eye
- 19) Uses of Cycloplegic drugs
- 20) Neutralization of lenses
- 21) Contact lenses for Myopia
- 22) Contact lenses for Keratoconus
- 23) Tonometry
- 24) Irregular astigmatism
- 25) Snellen's chart

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**PARA MEDICAL BOARD, BANGALORE**

**Annual Examination, October-2015**

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

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

**Time: 3 hrs**

**Max. Marks: 90**

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

**QP CODE - 2101**

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

**1 x 10 = 10**

- 1) Name the parts of Central nervous system. Describe the cerebellum in detail.
- 2) Name the parts of internal genital organs of Female reproductive system. Describe the Ovary in detail.

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

**5 x 5 = 25**

- |                              |                 |
|------------------------------|-----------------|
| 3) Pancreas                  | 7) Diaphragm    |
| 4) Axillary artery           | 8) Right atrium |
| 5) Histology of compact bone | 9) Gall bladder |
| 6) Sciatic Nerve             |                 |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 10) Name any four Dural venous sinuses
- 11) Name the muscles of Mastication
- 12) Name four types of Synovial joint
- 13) Name any four Cranial nerves
- 14) Name the Paranasal air sinuses

**Section B - PHYSIOLOGY (Write in Separate answer book)**

**QP CODE - 2102**

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

**1 x 10 = 10**

- 1) Name the plasma proteins and add a note on its functions
- 2) Name the hormones secreted by adrenal cortex and functions of Mineralocorticoids

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

**5 x 5 = 25**

- 3) Define Hypoxia and types of hypoxia
- 4) Constituents of bile
- 5) Pregnancy test
- 6) Pulmonary volumes and capacities and their values
- 7) Functions of cerebrospinal fluid
- 8) Define blood pressure, pulse pressure and mean arterial pressure

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Name any two female Contraceptive methods
- 10) Name two Pancreatic enzymes
- 11) Glomerular Filtration Rate (GFR)
- 12) Name the errors of refraction
- 13) Define anemia and leucopenia

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October-2015

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

## GENERAL PHYSICS

### QP CODE – 2121

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**1 x 10 = 10**

- 1) Explain the Principle, Construction and Functioning of Rotating anode. Add note on casing of the X ray tube.
- 2) Discuss in detail the structure of an Atom. Add a note on Tube rating charts

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

**5 x 5 = 25**

- 3) Half wave rectification
- 4) Capacitors
- 5) Step down transformer
- 6) Voltmeter
- 7) Insulators
- 8) Properties of X-rays

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

**5 x 2 = 10**

- 10) Positrons
- 11) Law of conservation of energy
- 12) Rectifier
- 13) Atomic mass
- 14) Diode

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October-2015

I Year Diploma in Medical Records Technology/ II Year Certificate course in  
Medical Records Technology  
MEDICAL RECORD SCIENCE(MRS)

## QP CODE - 2141

**Time: 3 hrs**

**Max. Marks: 90**

### **I. Long essay- Answer any TWO**

**2 x 10 = 20**

- 1) Duties and Responsibilities of Medical Record Officer (MRO).
- 2) Name different types of indexes maintained in Medical records and define each
- 3) Define good Medical Records and explain the main functions of medical records

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

**10 x 5 = 50**

- 4) Qualitative and quantitative analysis
- 5) Explain the filing rules and procedures
- 6) Define workman compensation act
- 7) What are the duties of public servant according to Indian Penal Code (IPC)
- 8) Bailable and Non-bailable offence
- 9) Define High court
- 10) Indian evidence Act 1872
- 11) Criminal Liabilities
- 12) Middle Digit filing
- 13) Medical Records committee
- 14) Medical audit and its importance
- 15) Retention of Medical Records

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

**10 x 2 =20**

- 16) In-patient register
- 17) Cross -examination
- 18) Bed Occupancy Rates
- 19) Brought Dead Register
- 20) Summons
- 21) Government pleader
- 22) Alpha index card
- 23) F.I.R
- 24) Cause of Death
- 25) Arrest

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**PARAMEDICAL BOARD, BANGALORE**

**Annual Examination, October 2015**

**I Year Diploma/ II Year Certificate course in Dental Materials 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) Classify impression materials used in dentistry. Describe the composition, properties, advantages and disadvantages of irreversible hydrocolloid
- 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) Dental stone
- 4) Properties of heat cure acrylic resin
- 5) Reversible hydrocolloid
- 6) Uses of Zinc oxide eugenol cement
- 7) Types of Stainless steel
- 8) Soldering and welding
- 9) Addition Silicon impression material

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Electroplating
- 11) Nickel chromium alloys
- 12) Niti wires
- 13) Divestment
- 14) Die

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**PARAMEDICAL BOARD, BANGALORE**

Annual Examination, October-2015

**I Year Diploma in Dental Hygiene / II Year Certificate course in  
Dental Hygiene**

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

**Time: 1 hr 30 min**

**Max. Marks: 45**

**Section- A: GENERAL ANATOMY & HISTOLOGY (Write in separate answer book)**

**QP CODE - 2181**

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

**1 x 9 = 9**

- 1) Name the muscles of Mastication. Give their nerve supply and action
- 2) Describe the Facial artery and its branches

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

**2 x 5 = 10**

- 3) Histology of tooth
- 4) Tongue
- 5) Thyroid gland

**III. WRITE SHORT ANSWERS**

**3 x 2 = 6**

- 6) Parotid duct
- 7) Name three parts of Eyeball
- 8) Parts of Mandible

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

**QP CODE - 2182**

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

**4 x 4 = 16**

- 1) Composition and any four functions of saliva
- 2) Stages of deglutition. Add a note on Pharyngeal phase
- 3) Landsteiner's law
- 4) Types of leukocytes and any four functions
- 5) Functions of Parathormone
- 6) Name four Taste sensations

**III. WRITE SHORT ANSWERS**

**2 x 2 = 4**

- 7) Normal blood temperature and Heart rate
- 8) Anemia and Thrombocytopenia

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**PARAMEDICAL BOARD, BANGALORE**

**Annual Examination, October-2015**

**I Year Diploma in OT Technology/ II Year Certificate course in OT Technology  
FUNDAMENTALS OF OT & BASIC CONCEPT IN SURGERY**

**QP CODE - 2131**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Write an essay on principles of pre-operative and operative surgery
- 2) Write an essay on ambulatory surgery ( day care surgery)
- 3) Define Sterilization. Describe different sterilization methods

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

**10 x 5 = 50**

- 4) Suction Devices.
- 5) Mechanism of wound healing
- 6) Instrument Count
- 7) Health care team
- 8) Surgical site infection
- 9) Intra-operative care
- 10) Write a short note on patient physician relationship
- 11) Preservation of specimen to be sent for histopathology and microbiology
- 12) Room cleanup after surgery – daily/weekly/monthly cleaning
- 13) Standards of preoperative nursing practice
- 14) Position in Surgery
- 15) Endoscopy

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Ryle's tube
- 17) Disinfection
- 18) Methods of haemostasis
- 19) Hospital waste management
- 20) Staples in surgery
- 21) Professional nursing
- 22) Identification of the patient in pre-op room
- 23) Vacuum suction
- 24) Surgical needles
- 25) Discharge and Follow-up

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October-2015

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

## PHARMACOLOGY & THEORY OF DIALYSIS

**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. LONG ESSAY – ANSWER ANY ONE

1 X 10 = 10

- 1) Classify Local anesthetics. Write the therapeutic uses and adverse effects of Lignocaine
- 2) Classify Aminoglycosides. Write the mechanism of action, uses and adverse effects of Gentamycin

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

5 X 5 = 25

- 3) Hepatitis B vaccine
- 4) Diazepam
- 5) Paracetamol
- 6) Vitamin C
- 7) Parenteral Iron preparations used in Anemia
- 8) Write the uses and adverse effects of Heparin

#### III. WRITE SHORT ANSWERS

5 x 2 = 10

- 9) Mention the antidotes for Paracetamol and Diazepam poisoning
- 10) Write two uses of Opioid analgesics
- 11) Write two Oral hypoglycemic drugs used in Diabetes mellitus
- 12) Write two uses of Ranitidine
- 13) Name two anti emetics

### 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 Disinfection in hemodialysis
- 2) Write in detail about Anticoagulation methods used in hemodialysis

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

5 x 5 = 25

- 3) Reverse osmosis
- 4) Complications of Central venous catheter
- 5) Functions of the Artificial kidney
- 6) Interdialytic weight gain
- 7) Dialysis efficiency
- 8) Universal precautions

#### III. WRITE SHORT ANSWERS

5x 2 = 10

- 9) Normal blood levels of Albumin and Globulin
- 10) Two causes of hypotension during dialysis
- 11) Causes of anemia in Chronic Renal Disease (CKD)
- 12) Two complications of Hemodialysis
- 13) Mention two Anti hypertensive drugs
- 14) Two methods of Arterio-Venous (A-V) fistula cannulation techniques

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION — OCTOBER 2015**  
**II D.P.T — PHARMACOLOGY**  
**QP CODE - 3192**

**Time: 3 hrs**

**Max. Marks: 90**

**I Long Essay (Answer any FOUR) 4 X 15 = 60**

1. Classify non-steroidal anti inflammatory drugs (NSAID). Discuss the mechanism of action, pharmacological actions, therapeutic uses and adverse reactions of aspirin.
2. Classify general anesthetics. Write the merits and demerits of Nitrous Oxide.
3. What are muscle relaxants? Write the uses of skeletal muscle relaxants.
4. Enumerate the various routes of drug administration. Write the Advantage and disadvantage of infra venous route.
5. Discuss the factors modifying the drug action on the body.

**II. Write short notes on any FOUR 4 X 5 = 20**

6. Semi synthetic penicillin's.
7. Co- Trimoxazole
8. Isoniazid
9. Bronchodilators
10. Heparin

**III. Write short answers 5 X 2 = 10**

11. Mention two disinfectants
12. Live attenuated vaccines
13. Name two anti epileptic drugs
14. BCG vaccine
15. Name two drugs used in peptic ulcer

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION OCTOBER 2015**  
**II Year Diploma in Ophthalmic Technology / III Year Certificate course in**  
**Ophthalmic Technology**  
**PAPER-11**  
**QP CODE 3162**

**Time:3hrs**

**Max Marks:90**

**I. LONG ESSAY- ANSWER ANY TWO** **2x10=20**

- 1) Screening of school children for eye problem
- 2) Rehabilitation of blind patient
- 3) Aims and objectives of vision 2020

**II. WRITE SHORT NOTES ON ANY TEN** **10x5=50**

- 4) National programme for control of blindness
- 5) Disease index
- 6) Define eye bank ? Write a note on Presevation of donor cornea.
- 7) Indoor Patient Department (IPD) surgical format
- 8) Survey methodology
- 9) Prophylaxis of vitamin A deficiency
- 10) Low vision aids
- 11) Health education in diabetics
- 12) Consent format
- 13) Snellens visual acuity chart
- 14) Transposition of lenses
- 15) SAFE strategy

**III. WRITE SHORT ANSWERS** **10x2=20**

- 16) Define legal blindness
- 17) Name two cause for corneal blindness
- 18) Name two cause for sudden paiful loss of vision
- 19) Name two cause for night blindness
- 20) Define astigmatism
- 21) Contraindications for use of contact lenses
- 22) Bitot's spot
- 23) ICD-10
- 24) Name two near vision charts
- 25) Screening of diabetic retinopathy

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**Paramedical Board, Karnataka, Bangalore**  
**Annual Examination- October 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. Name abnormal hemoglobin. Write a note on estimation of foetal hemoglobin and its significance
2. What are the standard blood donor selection criteria's? Add a note on transfusion reactions
3. Enumerate the steps involved in normal coagulation cascade. Write a note on prothrombin time and its significance

**II. Short Essay on any Ten**

**10 x 5 = 50 Marks**

4. Factors affecting tissue fixation
5. Work flowchart in histopathology room
6. Direct coombs test and its significance
7. Rhesus Blood group System
8. What is Cryostat? Uses of cryostat
9. Write physical examination and microscopic examination of CSF in Tuberculous meningitis
10. Write a note on Perl's stain procedure on bone marrow smear
11. Osmotic fragility test
12. Preparation of Harris Hematoxylin and Eosin stain in histopathology
13. LE cell procedure, its principal and significance
14. Write briefly on Laboratory waste management
15. Mandatory pre-transfusion test

**III. Short Answers**

**10 x 2 = 20 Marks**

16. What is surface decalcification
17. Colors of Blood Collection Tubes (vacutainer) used in
  - 1) Coagulation lab and 2) Hematology lab
18. Define Asthenospermia
19. Uses of EDTA
20. Name 2 embedding medias
21. Cell block preparation
22. What is FNAC, and its uses
23. Safety Precautions and Guidelines for good laboratory setup
24. What are Barr bodies?
25. Abnormal forms of sperms in semen

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**GOVERNMENT OF KARNATAKA  
PARAMEDICAL BOARD, BANGALORE  
ANNUAL EXAMINATION OCTOBER 2015  
III YEAR CERTIFICATE COURSE/FINAL YEAR DIPLOMA IN HEALTH INSPECTOR  
PAPER II  
OP CODE - 3112**

**TIME: 3 hour**

**Max Marks: 90**

**I. LONG ESSAY – ANSWER ANY TWO**

**2 X 10 = 20**

1. Enumerate the Health Care services in the community. Discuss ESI Act in detail.
2. Classify Contraceptive methods. Discuss Hormonal Contraceptives. Add a note on their advantages and disadvantages.
3. Define Health Education. Discuss the principles of Health Education.

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

**10 X 5 = 50**

4. Eligible couple
5. Job responsibilities of a health worker Male.
6. MTP Act.
7. Advantages of breast feeding.
8. School health programme in brief.
9. Common health problems of the Aged.
10. Child abuse and its prevention.
11. Sub centre.
12. Indian Red cross society.
13. Sickness absenteeism.
14. Common occupational hazards of Agricultural workers.
15. Expand RCH. What are the components of RCH II.

**III Write short answers:**

**10 x 2 = 20**

16. Anti helminthics.
17. Causes of Infant Mortality- any four.
18. Barriers in communication- enumerate.
19. Permanent methods of family planning.
20. Health team concept.
21. Contents of health education- any four.
22. Iron and folic acid tablets.
23. Measles vaccine.
24. Killed vaccine- any four.
25. Elements of Primary health care- any four.

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**GOVERNMENT OF KARNATAKA  
PARAMEDICAL BOARD, BANGALORE  
ANNUAL EXAMINATION OCTOBER 2015  
III YEAR CERTIFICATE COURSE/FINAL YEAR DIPLOMA IN Medical X-Ray Technology  
Radiography including Medical Records  
QP CODE-3122**

**TIME: 3 hour**

**Max Marks: 90**

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

**2X10=20 MARKS**

1. Write in detail about Intravenous urography. Add a note on contrast reaction.
2. Write a note on Image Intensifier TV.
3. Explain in detail the generations of CT with diagram.

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

**10X5=50 MARKS**

4. Sinogram.
5. Barium enema.
6. Scaphoid view.
7. Indications and contraindications of binder.
8. T2 weighted imaging.
9. Contrast reaction.
10. Ohm's law.
11. T Tube Cholangiogram.
12. Brief note on medico legal records maintained in radiology.
13. Doppler.
14. X Ray centering.
15. Optic foramen view.

**III. WRITE SHORT ANSWERS**

**10X2=20 MARKS**

16. Ionic contrast medium.
17. Cassette maintenance.
18. Frog's leg view .
19. Contrast CT.
20. Expand **PACS and RIS**.
21. Lumbar **spine**.
22. Anode heel effect.
23. Carpal bones.
24. Half value layer.
25. Macroradiography.

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**PARAMEDICAL BOARD, BANGALORE  
ANNUAL EXAMINATION OCTOBER 2015**

**II year Diploma in Medical Records Technology/ III year Certificate Course in Medical Records Technology.  
HOSPITAL ADMINISTRATION  
QP CODE — 3142**

**Time: 3hrs**

**Max. Marks: 90**

- I. LONG ESSAY** **2\*10=20**
1. Classify Hospitals. And write on functions of hospitals.
  2. Mention different approach of management. Add a note on role of manager.
  3. Mention types of laboratories. Add a note on quality assurance program in the laboratory.
- 11. Write in brief on any TEN** **10\*5=50**
4. Medical tourism.
  5. Equipments management.
  6. Telemedicine.
  7. Role of hospital in primary health care.
  8. Planning cycle.
  9. Types of plans.
  10. Classification of hospital based on ownership and control.
  11. Hospital consultant.
  12. Hospital project management.
  13. Types of Outdoor Patient Department (OPD) and its importance.
  14. Types of emergency and emergency services.
  15. Evaluation of hospital services.
- III. Short Notes** **10\*2=20**
16. Classification of hospital waste.
  17. Agent factors in nosocomial infections.
  18. Laundry services.
  19. Natural disaster.
  20. Man made disaster.
  21. Objectives of hospital disaster plan.
  22. Write on flow chart of development of security technology plan.
  23. Mention steps of selection of security on contract basis.
  24. Mention four occupational hazards in hospital.
  25. Public health care system in India.

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October — 2015**  
**II Year Diploma in Dental Mechanics / III Year Certificate course in Dental**  
**Mechanics**  
**PARTIAL DENTURES, ORTHODONTIA, MAXIOFACIAL PROSTHESIS**  
**(N.S)**  
**QP CODE — 3172**

**Time: 1:30 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) Dental surveyor
- 3) Pontics 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) Refractory cast
- 8) Gingivally approaching clasp
- 9) Arbitrary blockout
- 10) Mention different die materials used
- 11) Centrifugal casting machine

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION OCTOBER 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: **1:30 hrs**

Max Marks: **45**

**I. Long essay** **1x10=10**

1. Describe various tooth brushing techniques.

**II. Write short notes** **5x5=25**

2. Child care counseling
3. Oral health in handicapped.
4. Prevention of periodontal diseases.
5. Habits and their effects on dental structure.
6. Community water fluoridation.

**III. Write short answers** **2x5=10**

7. Oral irrigation devices.
8. School health education.
9. Audio visual aids.
10. Chlorhexidine mouthwash.
11. Dental camps.

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October 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) Discuss emergency Lower segment Cesarian section (LSCS)?
- 2) Describe the short term & long term management of burns patients.
- 3) Discuss various methods of sterilization.

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

**10 x 5 = 50**

- 4) Ventral Hernia
- 5) Lymphoma
- 6) Tonsillectomy
- 7) Cataract Surgeries
- 8) Diabetic foot care
- 9) Bronchoscopy
- 10) Appendicectomy
- 11) Enumerate the common causes for Haematemesis.
- 12) Hemorrhoids.
- 13) Central Venous Pressure (CVP)
- 14) What is Transplantation? Describe the types of Transplantation
- 15) central sterile services department (CSSD)

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Fissure-in-ano
- 17) Sitz bath
- 18) Methods of urinary catheterization
- 19) Circumcision
- 20) Cryosurgery
- 21) Hand washing Technique
- 22) Keloid
- 23) Rodent Ulcer
- 24) Brachytherapy
- 25) Episiotomy

**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October — 2015**

**II Year Diploma in Dental Mechanics / III Year Certificate course in Dialysis Technology**  
**Renal Replacement Therapy other than Haemodialysis & Patient Technique (NS)**

**QP CODE — 3152**

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

2 x 10= 20

1. Discuss various modalities of Continuous renal replacement therapy (CRRT).
2. Discuss apparatus for peritoneal dialysis.
3. Discuss anatomy and physiology of peritoneal dialysis.

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

**10 x 5 = 50**

4. Sorbent dialysis
5. Role of dialysis in poisoning patients.
6. Symptoms and signs of peritonitis.
7. Peritoneal Equilibration Test (PET)
8. Causes of seizures in dialysis patients.
9. Exit site infection
10. Assisted Peritoneal Dialysis (APD)
11. Newer peritoneal dialysis solutions
12. Slow-continuous ultrafiltration (SCUF)
13. Complications of plasmapheresis
14. Regional citrate anticoagulation
15. Psychological issues in dialysis patients.

**III. Write short answers**

10 x 2 = 20

16. Mention two commonly used drugs in renal transplant.
17. Mention two types of Peritoneal Dialysis (PD) Catheters.
18. Mention two antibiotics used in treatment of peritonitis.
19. Replacement solution in Therapeutic Plasma Exchange (TPE).
20. Mention two oral diabetic drugs.
21. Mention common organisms causing peritonitis.
22. Common types of hernias reported in peritoneal dialysis patients.
23. Vaccines in dialysis patients
24. Mention two common ACE inhibitors.
25. Mention two antifungal drugs.

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**GOVERNMENT OF KARNATAKA**  
**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October 2015**  
**Common paper for all I year Certificate Courses**  
**CHEMISTRY**  
**QP CODE — 1102**

**Time : 1 1/2 hours**

**Max.Marks : 45**

**I. LONG ESSAY— ANSWER ANY ONE 1X10 =10**

- 1) What are Electrolytes? Give examples and explain the Arrhenius theory of Electrolyte dissociation.
- 2) How Nitric acid is manufactured by Oswald process?

**II. WRITE SHORT NOTES ON ANY FIVE: 5X5= 25**

- 3) What are indicators? Explain the different kinds of indicators.
- 4) Structure of atom.
- 5) Properties and uses of Sodium carbonate.
- 6) Application of colloids in Medicine and food.
- 7) Halogen.
- 8) How Phenol is recovered from coal tar. How **it** is converted into  
(a) Salicylic acid and (b) Picric acid.
- 9) Tyndal effect and Brownian movement.

**III. WRITE SHORT ANSWERS 5X2 = 10**

- 10) What is denaturation of Protein?
- 11) Methane is called "Marsh gas". Give reason.
- 12) What is "Aqua raga"? Mention its uses.
- 13) Write the formula for Glycine and Alanine.
- 14) How acids are different from bases? Give two examples for each.

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October- 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. Long Essays- (Answer any THREE)**

**3 x 10=30**

- 1) Explain the mechanism of ventilation and add a note on regulation of respiration.
- 2) Name the hormones secreted by thyroid gland and describe their functions.
- 3) Composition and functions of plasma proteins
- 4) Define Blood pressure , factors regulating it and add a note on long term regulation of blood pressure.

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

**5x 5 =25**

- 5) Common errors of Refraction.
- 6) Lung volumes and capacities
- 7) Body fluid compartments
- 8) Milk Ejection reflex
- 9) GFR and Name the factors determining it.
- 10) Spermatogenesis
- 11) What is referred pain. Give one example for referred pain

**III. Write short answers**

**5 x 2=10**

- 12) Parturition
- 13) Diabetes mellitus
- 14) Rigor Mortis
- 15) Erythroblastosis faetalis
- 16) Name two female contraceptive methods

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

## QP CODE - 2193

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

**1 x 10=10**

- 1) List fat soluble vitamins. Discuss the functions and deficiency states of any two of them.
- 2) Define and classify carbohydrates with examples. Mention the functions of carbohydrates.

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

**1 x 5 = 5**

- 3) Balanced diet
- 4) Renal Function test

**III. Write short answers**

**5 x 2=10**

- 5) Hay's test
- 6) Pellagra
- 7) Ketone bodies
- 8) Benedict's test
- 9) Serum creatinine

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October- 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) Describe the techniques of Suryanamaskara
- 2) Explain the principles of yoga therapy
- 3) Explain the rules, techniques and benefits of practicing medication
- 4) Describe the role of yogasana in the management of hypertension.
- 5) Describe the psycho-physiological concept of yoga

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

**5 x 5 = 25**

- 6) Padmasana
- 7) Physiology of stress
- 8) Mental retardation
- 9) Yogic Diet
- 10) JALA NETI
- 11) Kriyas

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**PARAMEDICAL BOARD, BANGALORE**

**Annual Examination, October- 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) Discuss type of conjunctivitis and management.
- 2) Discuss trachoma stages and management.
- 3) Discuss causes of acute red eye.

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

**10 x 5 = 50**

- 4) Preoperative investigation for cataract management.
- 5) Lacrimal patency test.
- 6) Aphakia and correction.
- 7) Childhood cataract management.
- 8) Types of glaucoma.
- 9) Methods for recording Intra ocular pressure (IOP).
- 10) Cover test.
- 11) Maddox rod.
- 12) Fundus changes in Diabetes mellitus.
- 13) Vitamin A deficiency.
- 14) Amblyopia.
- 15) Fundus changes in Hypertension

**III. Write short answers**

**10 x 2 = 20**

- 16) Name two fungi causing ocular infection.
- 17) Name two mydriatics used in refraction.
- 18) Name two antiglaucoma medications.
- 19) Name two cycloplegic drugs used in refraction.
- 20) Name two antifungal drugs.
- 21) Name two antibacterial drugs.
- 22) Uses of pilocarpine.
- 23) Uses of atropine.
- 24) Name two steroids used in eye.
- 25) Name two antiviral drugs used in eye.

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**PARA MEDICAL BOARD, BANGALORE**

**Annual Examination, October-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**

**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.  
a) 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+3 =10)

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

**10 x5=50**

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

**III WRITE SHORT ANSWERS**

**10X2=20**

16. Name 2 Sugar test methods in urine
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. Define Normality and Molarity.

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October-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) Explain the structure of heart and its functions.
- 2) Enlist indicators of health and explain one of them in detail.
- 3) Define Sociology. Describe social factors related to diseases.

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

**10x5=50**

- 4) Explain multi factorial causation of diseases with examples.
- 5) Explain levels of prevention with suitable examples.
- 6) Explain iceberg of diseases with examples.
- 7) Holistic concept of health.
- 8) Life style diseases
- 9) Medical social worker
- 10) Urban society
- 11) Briefly explain dimensions of health.
- 12) Epidemiological triad
- 13) Define rehabilitation and explain its various types.
- 14) Explain different food habits related to diseases
- 15) Explain different types of families

**III. Write short answers**

**10x2=20**

- 16) Name different blood groups
- 17) Acculturation
- 18) Broken family
- 19) Anthropology.
- 20) Define health.
- 21) Crude birth rate
- 22) Functions of lungs
- 23) Define family
- 24) Mention four risk factors for hypertension
- 25) Write two advantages of joint families.

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October-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 Lymphatic organs. Describe spleen in detail
- 2) Name the parts of female reproductive system. Describe Uterus in detail.
- 3) Name the parts of Respiratory system . Describe lungs in detail.

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

**5 x 3 = 15**

- 4) Cerebellum
- 5) Histology of vein
- 6) Larynx
- 7) Suprarenal glands

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

**5 x 2 =10**

- 8) Name the branches of external carotid artery
- 9) Name four muscles of lower limb
- 10) Name the salivary glands
- 11) Name four arteries of upper limb
- 12) Name the paranasal sinuses.

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October -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 endocrine glands. Describe the Thyroid gland in detail
- 2) Name the Parts of Gastro-intestinal system. Describe Liver in detail.

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

**2 x 5 = 10**

- 3) Histology of lymphnode
- 4) Trachea
- 5) Vas deferens

**III. WRITE SHORT ANSWER**

**5 x 2 = 10**

- 6) Mitochondria
- 9) Name the two ligaments of Ovary
- 7) Name two muscles of tongue
- 10) Name two parts of pancreas
- 8) Name two layers of Retina .

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 Leucocytes
- 5) Structure of Nephron
- 2) Gigantism
- 6) Artificial respiration
- 3) Heart sounds
- 4) Define Cardiac Output and Stroke Volume, give their Values

**II. WRITE SHORT ANSWER**

**5 x 2 = 10**

- 7) Surfactant
- 8) Name two errors of refraction
- 9) Normal values of pulse rate and blood pressure
- 10) Bile salts
- 11) Hormones acting on Kidney

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

## QP CODE – 2144

**I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) What is Tuberculosis? Name the organism causing tuberculosis? Write briefly about methods of diagnosing tuberculosis.
- 2) What are the different tests done in urine? Discuss about any one method

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

**2 x 5 = 10**

- 3) Gram stain
- 4) Autoclave
- 5) What are the different methods of haemoglobin estimation? Write about any one method

**III. WRITE SHORT ANSWER**

**5 x 2 = 10**

- 6) Two tests for diagnosis of Typhoid
- 7) Two bacteria causing Urinary tract infection.
- 8) Two viruses transmitted by blood
- 9) Name different types of blood cells.
- 10) Name commonly used fixative in Histopathology and its advantages.

**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October 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 Maxillary permanent first molar.
- 2) Maxillary denture- Supporting and limiting areas.

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

**5 x 5 = 25**

- 3) Muscles of mastication
- 4) Movements of temporo-mandibular joint
- 5) Buccal shelf area
- 6) Muscles of tongue
- 7) Class II and Class III Occlusion
- 8) Maxillary lateral incisor.
- 9) Mandibular limiting structures.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Rugae
- 11) FDI notation for permanent dentition
- 12) Freni and its significance
- 13) Mid-palatine raphe
- 14) Masseter muscle

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**PARAMEDICAL BOARD, BANGALORE**

Annual Examination, October-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 Neoplasia. Differences between Benign and Malignant tumours.
- 2) Define Inflammation. Write signs of inflammation. Add a note on healing by primary intention.

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

**4x 5 =20**

- 3) Oral leukoplakia
- 4) Oral Manifestations of anemia
- 5) Vitamin A deficiency
- 6) Dental anomalies
- 7) Pyogenic abscess
- 8) Aphthous Ulcer.

**III. Write short answers**

**3 x2 =6**

- 9) List four dental anomalies
- 10) Oral Candidiasis
- 11) Define Necrosis

**Section- B, GENERAL PHARMACOLOGY**

**(write in separate answer book)**

**QP CODE- 2184**

**I. Write short answers**

**5 x 2 =10**

- 1) Name two B complex Vitamins
- 2) Write two uses of Anticoagulants
- 3) Name two local Haemostatics
- 4) Surface anaesthesia
- 5) Mention two uses of Diclofenac Sodium

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**PARAMEDICAL BOARD, BANGALORE**

**Annual Examination, October-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) Write in detail about the digestion and absorption of Carbohydrates and their function.
- 2) Name the important buffer systems of body. Describe the role of lungs and Kidneys in the maintenance of acid base balance.

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

**2 X 5 = 10**

- 3) Urea cycle
- 4) Abnormal constituents of urine
- 5) Tests for proteinuria

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 6) Rothera's test
- 7) Normal values of serum Urea and Creatinine
- 8) Name the serum Electrolytes
- 9) Specific gravity of urine
- 10) Hormones regulating blood glucose levels.

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

**QP CODE - 2133**

**I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Classify routes of drug administration with suitable examples. Write the advantages and disadvantages of Intravenous Drug administration.
- 2) Classify Penicillins. Write the mechanism of action, uses and adverse effects of Benzyl penicillin.

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

**2 x 5 = 10**

- 3) Paracetamol
- 4) Thiopentone sodium
- 5) Spinal anesthesia

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 6) Name two uses of Adrenaline
- 7) Write two uses of Ondansetron
- 8) Define Pharmacokinetics.
- 9) Mention two uses of Diazepam
- 10) Write two skeletal muscle relaxants used in General anaesthesia.

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

**QP CODE - 2134**

**I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Define Hypersensitivity. Explain type I Hypersensitivity .
- 2) Define Universal precaution. Write in detail about Biomedical Waste Management.

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

**2 x 5 = 10**

- 3) Passive Immunity
- 4) Tetanus
- 5) Autoclave.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 6) Define Nosocomial Infection
- 7) Name two viruses Transmitted through blood.
- 8) Four Contributions of Robert Koch
- 9) Name four Gram Negative Bacilli.
- 10) Name four articles sterilization in Hot air Oven

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# PARAMEDICAL BOARD, BANGALORE

Annual Examination, October -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) Name abnormal Constituents of Urine. Write the methods of analysis of abnormal Urine.
- 2) Write in detail about Digestion, Absorption and functions of Carbohydrates.

### II. WRITE SHORT NOTES ON ANY FIVE

5 X 5 = 25

- 3) Urea Cycle
- 4) Clearance tests
- 5) Spectrophotometer
- 6) Acidosis
- 7) Factors regulating blood glucose level
- 8) Factors maintaining normal blood pH

### III. WRITE SHORT ANSWERS

5 x 2 = 10

- 9) Define an acid and a base
- 10) Serum Electrolytes
- 11) Give normal range of serum Urea and Creatinine
- 12) Jaffes test
- 13) Benedicts test.

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

## QP CODE - 2154

### I. ANSWER ANY ONE

1 x 10 = 10

- 1) Define & Classify Disinfection. Write in detail about Disinfection of Heat sensitive equipment.
- 2) Write a neat and labeled diagram of morphology of bacterial cell. Write about Bacterial flagella.

### II. WRITE SHORT NOTES ON ANY FIVE

5 x 5 = 25

- 3) Modes of Transmission of HIV
- 4) Diseases caused by Herpes Virus
- 5) Mantoux test
- 6) Biomedical Waste disposal.
- 7) Gas Gangrene
- 8) Bacterial spore.

### III. WRITE SHORT ANSWERS

5x 2 =10

- 9) Name two acid fast bacilli
- 10) Name two Bacterial Filters
- 11) Four differences between Active and Passive immunity
- 12) Name two Organism causing Nosocomial infection
- 13) Steps of Hand Washing

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**PARAMEDICAL BOARD, BANGALORE**

**ANNUAL EXAMINATION OCTOBER- 2015**

**II YEAR DIPLOMA IN PHYSIOTHERAPY**

**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. Describe etiology, clinical features, management and complications of Bacterial meningitis
2. Describe etiology, clinical features and management of Ischaemic stroke.
3. Describe the clinical features, Investigations and Treatment of Lobar Pneumonia.
4. Classify anaemia. Describe the clinical features and management of megaloblastic anaemia.
5. Describe etiology, clinical features, complication and management of infective Hepatitis A.
6. Write etiology, Clinical features, Investigations and management of Typhoid fever.

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

**6 X 5 = 30**

7. Measles
8. Grave's disease
9. Obesity
10. Congenital Heart Diseases
11. Treatment of Epilepsy
12. Angina pectoris
13. Amoebic dysentery

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# PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION OCTOBER- 2015

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

Subject: MICROBIOLOGY

QP CODE – 3103

Time: 3 hrs

Max. Marks: 90

**I. LONG ESSAY – ANSWER ANY TWO**

**2X10=20**

1. Enumerate the organisms causing meningitis. Add a note on laboratory diagnosis of meningitis.
2. Enumerate antigen & antibody reactions. Add a note on agglutination.
3. Define and classify hypersensitivity. Add a note on Type 1 hypersensitivity reaction.

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

**10X5=50**

4. Lab diagnosis of pulmonary tuberculosis.
5. Hospital acquired infections.
6. Venereal Disease Research Laboratory (VDRL).
7. Enzyme-Linked Immunosorbent Assay (ELISA).
8. Biomedical waste management.
9. Laboratory diagnosis of Hepatitis B virus infection.
10. Antibiotic sensitivity testing.
11. Giardiasis.
12. Life cycle of *Ascaris lumbricoides*.
13. Anti Streptolysin 'O' (AS LO).
14. Laboratory diagnosis of cryptococcosis.
15. Tetanus.
16. Catalase test.

**III. WRITE SHORT ANSWERS**

**10X2=20**

17. Give two examples of precipitation reaction.
18. Name two acidfast organisms.
19. Name two indole +ve and two –ve organisms.
20. CRP test.
21. Uses of chocolate agar.
22. Collection of sputum sample.
23. Name two oxidase producing organisms.
24. Name two spore bearing organisms.
25. Name two capsulate organisms.
26. Preparation blood smear for Malarial parasite examinations.

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION OCTOBER- 2015**  
**II YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN MEDICAL X-RAY**  
**TECHNOLOGY**  
**RADIOGRAPHY INCLUDING NEWER IMAGING TECHNOLOGY, (N.S) R-III**  
**QP CODE – 3123**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2x10=20**

- 1) Describe the principle on which CT scan machine works. Add a note on CT artifacts
- 2) Briefly describe computed and digital radiography and highlight differences with respect to conventional radiography
- 3) Write a note on fluoroscopy — including Image Intensifying Television (IITV), indications and precautions

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

**10x5=50**

- 4) Briefly describe Magnetic Resonance Imaging (MRI) physics.
- 5) Hysterosalpingogram (HSG)
- 6) Mammography
- 7) Doppler ultrasound
- 8) CT paranasal sinuses
- 9) Xeroradiographic plate
- 10) Barium swallow
- 11) Cholecystography
- 12) Xenon gas ionisation chamber
- 13) Routine projections for lower limb
- 14) Contrast Enhanced Computed Tomography (CECT) KUB
- 15) CT angiography

**III.WRITE SHORT ANSWERS**

**10x2=20**

- 16) Picture archiving and communication system (PACS)
- 17) Projections for sinuses
- 18) Uses of ultrasound
- 19) Two sequences in MRI
- 20) Exposure angle
- 21) Magnetic Resonance Imaging (MRI) coils
- 22) Thermoluminescent Dosimeter (TLD)
- 23) Computed Tomography (CT) number
- 24) Wide angle tomography
- 25) Potentiometer

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION OCTOBER- 2015**  
**II YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN MEDICAL RECORDS**  
**TECHNOLOGY**  
**Subject: COMPUTER SCIENCE**  
**QP CODE – 3143**

**Time: 1:30 hrs**

**Max. Marks: 40**

**I. LONG ESSAY – ANSWER ANY ONE**

**1 X 10 = 10**

- 1) What is software of a computer and describe the various types of software?
- 2) Which are the different types of computer and printers along With brief description?

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

**4 X 5 = 20**

- 3) Advantages and limitations of Computer?
- 4) Anatomy of Computer?
- 5) What are Hardwares and softwares?
- 6) E-mail and Networking?
- 7) What is database, give example.

**III. WRITE SHORT ANSWERS**

**5 X 2 = 10**

- 8) ROM AND RAM
- 9) LAPTOP
- 10) HARD DISK
- 11) MONITOR
- 12) MS-EXCEL

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# PARAMEDICAL BOARD, BANGALORE

ANNUAL EXAMINATION OCTOBER- 2015

II YEAR DIPLOMA / III YEAR CERTIFICATE COURSE IN DENTAL HYGIENE

Operating room Technique, Chair side Assts. & Dental Materials,  
Ethics & Jurisprudence (N.S)

**QP CODE – 3183**

Time: 1:30 hrs

Max. Marks: 45

**I. Long essay**

**1x10 =10**

- 1) Describe in detail various Sterilization methods and care of Dental instruments.

**II. Write short notes**

**5x5 = 25**

- 2) Material maintenance and supply.
- 3) Appointment and recall system
- 4) Ethics in Dental practice.
- 5) Various instrument grasps.
- 6) Objective and scope of Dentistry.

**III. Write short answers**

**2x5 = 10**

- 7) Dental auxiliary
- 8) Chair side assistance.
- 9) Audio-visual aids.
- 10) Case record maintenance.
- 11) Scaling and root planning strokes.

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION OCTOBER- 2015**  
**I YEAR CERTIFICATE COURSE**  
**Subject: BIOLOGY**  
**QP CODE – 1103**

**Time: 1:30 hrs**

**Max. Marks: 45**

**I. LONG ESSAY – ANSWER ANY ONE**

**1 X 10 = 10**

- 1) Explain Mechanism of working heart.
- 2) Explain Mitosis in detail.

**II WRITE SHORT NOTES ON ANY FIVE**

**5 X 5 = 25**

- 3) Structure of Bacteria.
- 4) Define Enzymes. Explain lock & Key model.
- 5) Double Helix Model of Watson & Crick
- 6) Muscle Tissue
- 7) Structure of Kidney
- 8) Krebs's Cycle
- 9) Structure of Sperm

**III WRITE SHORT ANSWERS**

**5 X 2 =10**

- 10) Applications of Genetic Finger Printing
- 11) Functions of Placenta
- 12) Ribosomes
- 13) Types of RNA & their functions.
- 14) Thymus Gland.

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# PARAMEDICAL BOARD, BANGALORE

## ANNUAL EXAMINATION OCTOBER- 2015

III YEAR CERTIFICATE COURSE/FINAL YEAR DIPLOMA IN HEALTH INSPECTOR

PAPER III

OP CODE - 3113

**TIME: 3 hour**

**Max Marks: 90**

**I LONG ESSAY – ANSWER ANY TWO**

**2 X 10 = 20**

1. Enumerate the International health agencies. Discuss UNICEF in detail.
2. Define Health Education. Discuss the principles of Health education.
3. Define Pneumoconiosis. Discuss in brief.

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

**10 X 5 = 50**

4. Measles vaccine.
5. Job responsibilities of a Medical Officer of a primary health centre.
6. Causes and prevention of Juvenile delinquency.
7. Advantages and disadvantages of Oral contraceptive usage.
8. Barriers in communication.
9. Role play/ street play.
10. Note on Essential drugs.
11. School health programme in brief.
12. Low birth weight children- causes and preventive measures.
13. Rural development- Advantages.
14. Common Occupational hazards faced by Agricultural workers.
15. International Red cross society.

**III Write short answers:**

**10 x 2 = 20**

16. Indications of MTP-any four.
17. Advantages of Breast feeding- any four.
18. Census.
19. Sub centre.
20. BCG vaccine.
21. First aid in Burns.
22. Street children.
23. Common health problems of the Aged- any four.
24. Eligible couple.
25. Health team concept.

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October 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) Classify hernia. Write in detail the management of inguinal hernia
- 2) How do you classify Burns; Discuss the management of patient with 50% burns.
- 3) What are tumors ? Explain surgical management of tumors.

**II. Write short notes any THREE**

**3 x 5= 15**

- 4) Lipoma
- 5) Fissure-in- ano
- 6) Gall bladder stone.
- 7) Complications of Blood transfusion.

**III. Answer any TWO**

**2 x 15= 30**

- 8) Write down the etiology of Osteomyelitis and discuss the management of Chronic Osteomyelitis.
- 9) How do you manage a patient with fracture of Cervical spine.
- 10) What do you mean by Colle's Fracture?. Write down the clinical features and management.

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

**3 x 5= 15**

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

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October 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) Write Differences between " Dragger" and "Asterik" ?
- 2) What is Coding ?
- 3) Define Diagnosis
- 4) ICD-10
- 5) Expand the following abbreviations:

A: HIV

B: IDDM

C: Hb.

D: ARF.

E: ALD.

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**PARAMEDICAL BOARD BANGALORE**  
**Annual Examination, October 2015**  
**Common paper for all I year Certificate Courses**  
**ENGLISH**  
**(OLD & NEW SCHEME)**  
**QP CODE 1104**

**Time: 1 ½ hrs**

**Max. Marks: 45 (New Scheme)**

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

**1x15=15(NS)**

- 1) Newspaper
- 2) Corruption

**II. ANSWER ANY ONE**

**1 x 10 = 10**

- 3) Write a letter to your Principal asking him for two days leave as you want to attend your Sister Marriage.
- 4) Write a letter to your father requesting him to send Examination fee and regarding your preparation for examination.

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

**5 x 1 = 5**

- 5) King      6) Tiger    7) Bull      8) Mayor      9) Landlord

**IV. WRITE THE OPPOSITE OF**

**5 x 1 = 5**

- 10) Cold      11) Obedient    12) Junior      13) Front      14) Legal

**V. MAKE SENTENCES USING THE FOLLOWING**

**5 x 1 = 5**

- 15) Knowledge
- 16) as well as
- 17) Instead of
- 18) take over
- 19) Look after

**VI. FILL IN THE BLANKS**

**5 x 1 = 5**

- 20) The sun rises \_\_\_\_\_ the west.
- 21) The Clock is \_\_\_\_\_ the wall.
- 22) My father brought clothes to me \_\_\_\_\_ to my Sister.
- 23) The girl is fond \_\_\_\_\_ dance.
- 24) I first met her \_\_\_\_\_ year ago.

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October 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) List the fundamental principles of learning . Describe classical conditioning and apparent learning. Add a note on the laws of learning.
- 2) What are motives ? Explain drives and needs. Bring out the aspects of frustration and conflicts with examples.
- 3) What are attitudes ?. What are the components of attitude system ? Give examples.
- 4) What are neuro-psychological tests ? Elaborate their uses.

**II. Answer any THREE**

**3 x 10 = 30**

- 5) Role of heredity and environment on the individual development.
- 6) Narrate different branches of psychology and its scope.
- 7) Explain theories of remembering and forgetting. How do you measure memory ?
- 8) Mention the range of individual differences. How intelligence is understood.

**III. Answer any FIVE**

**5 x 3 = 15**

- 9) Hallucinations and Illusions
- 10) Human relations
- 11) Analytical reasoning
- 12) Growth and Development
- 13) Maslow's hierarchy of needs
- 14) Gender complexes
- 15) Psychological testing

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October- 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) Describe medical and Physiotherapy (PT) management of Osteoarthritis.
- 2) Enumerate the investigation done in lumbar spondylosis and explain PT management .
- 3) Describe the role of Physiotherapist in Intensive Care Unit (ICU)
- 4) Describe the medical and PT management of Rheumatoid hand.
- 5) Define Scoliosis. What are the different causes for it. Diagnosis and assessment on conservative, surgical and physiotherapeutic treatment ?.
- 6) Define Parkinsonism, its features and PT management of Parkinson disorder.

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

**5 x 6 = 30**

- 7) Spirometry
- 8) Principles of Neuro-Developmental Treatment (NDT)
- 9) Diabetic Foot
- 10) Deep Vain Thrombosis (DVT)
- 11) Mitral Stenosis.
- 12) Functional Electrical stimulation.

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October 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) Classify Culture media. Write in detail the preparation of Blood agar.
- 2) Define Sterilization. Write in detail about Autoclave.
- 3) Define and Classify Immunity. Discuss Innate immunity.

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

**10 x 5 = 50**

- 4) Gram Stain
- 5) Robert Koch.
- 6) Bacterial growth Curve.
- 7) Antigen.
- 8) Fumigation
- 9) Bacterial spore
- 10) Handling and care of Compound Microscope.
- 11) Washing of New Glass wares.
- 12) Standard precautions.
- 13) Oxidase test
- 14) Vaccines.
- 15) Albert Stain and its Uses.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Name two gaseous disinfectants.
- 17) Name four flagellated bacteria.
- 18) Name two transport media.
- 19) Name two uses of Darkground microscope
- 20) Name for articles sterilized by hot air oven.
- 21) Name two acid fast bacilli.
- 22) Acute Phase Proteins.
- 23) Name two types of pasturisation.
- 24) Name two Selective media.
- 25) Name two methods of demonstration of capsule.

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October- 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 Marks**

1. What is Osteomyelitis? Describe about Sequestrum and Involucrum.
2. Discuss stages of healing of a fracture.

**II. Short Essay on any five**

**5 x 5 = 25 Marks**

3. Achalasia cardia.
4. Types of Gall stones and Complications of Gall stones.
5. Types of Necrosis with examples.
6. Carcinoma breast.
7. Osteosarcoma.
8. Rickets.
9. Congenital anomalies of Kidney.

**III. Short Answers**

**5 x 2 = 10 Marks**

10. Four differences between Exudate and Transudate.
11. Causes for Cirrhosis of liver.
12. Two causes for cardiomegaly.
13. Tubercular ulcer intestine.
14. What is Gouty Arthritis?

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION – OCT 2015**  
**II D.P.T – THERAPEUTIC EXERCISE**  
**QP CODE - 3196**

**Time: 3 hrs**

**Max. Marks: 90**

**I Long Essay (Answer any TWO)**

**2 X 15 = 30**

1. Explain in detail the basic techniques of PNF
2. Explain Frenkel's exercises.
3. Discuss the principles, effects and uses of passive movement.

**II. Answer any THREE**

**3 X 10 = 30**

4. Activities of daily living (ADL) training.
5. Voluntary and involuntary movements.
6. Define Gait and write about two pathological Gait?
7. Write about physiotherapy management for Frozen shoulder.

**III. Write short notes on any SIX**

**6 X 5 = 30**

8. Breathing exercise
9. Methods of muscle testing
10. Different types of levers
11. Ballistic movement
12. Eccentric exercise
13. Isokinetic exercises
14. Muscle re-education

**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination October 2015**  
**I DPT — MICROBIOLOGY**  
**QP CODE 2194**

**Time: 3 Hrs**

**Max. Marks: 90**

- I. **Long Essay — Answer any TWO** **2x10 = 20**
1. Define infection. Discuss source of infection and modes of transmission in detail.
  2. Define and classify hypersensitivity. Write in detail about Type 1 hypersensitivity.
  3. Write in detail about pathogenesis and prophylaxis of poliomyelitis.
- II. **Write short notes on any TEN** **10x5 = 50**
4. Lifecycle of Plasmodium Falciparum
  5. Viral hepatitis
  6. Pasteurization
  7. Acid - fast bacilli
  8. IgG Antibody
  9. Prevention and treatment of Tetanus
  10. Lab diagnosis of Syphilis
  11. Nosocomial infection
  12. Leprosy
  13. Lab diagnosis of Typhoid fever
  14. Coagulase test
  15. Classification of Sterilisation methods
- III. **Write short answers** **10x2 = 20**
16. Name four selective medias
  17. Mention two differences between bacteria and viruses
  18. Bacilli
  19. LJ medium
  20. Name four anaerobes
  21. Polio vaccines
  22. Amoebiasis
  23. Name four sexually transmitted infections
  24. Name two zoonotic diseases
  25. Oxidase reaction

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination October 2015**  
**III DPT — Disability Evaluation & Community Physiotherapy**

**QP CODE 3203**

**Time: 2 Hrs**

**Max. Marks: 65**

**I. Long Essay — Answer any FOUR** **4x10 = 40**

1. Explain in detail the role of physiotherapy in maternal care.
2. Explain the assessment and management of neurodevelopment and neuromuscular disorder.
3. Discuss the characteristics and types of muscular dystrophies. How would you assess a case of Duchenne muscular dystrophy (DMD) ? Mention the treatment for the same.
4. Discuss the prevention and management of congenital contractures and deformities.
5. What is occupational therapy? Discuss the principles of management of a child with cerebral palsy.

**II. Write short notes on any FIVE** **5x5 = 25**

6. Speech therapy
7. Amputation
8. Neonatal reflexes
9. Home exercise
10. Sach foot
11. Community based rehabilitation (CBR) Organization

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**PARAMEDICAL BOARD, BANGALORE**

Annual Examination, October 2015

**I year Diploma in Medical Laboratory Technology / II year certificate course in Medical**

**Laboratory Technology.**

Subject: Pathology

**QP CODE -2104**

**Time: 3 Hours**

**Max. Marks: 90**

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

**2X10=20 Marks**

1. Describe methods of urine collection & physical examination.
2. Describe methods of collection of blood samples add a note on anticoagulants used in different tests.
3. Preparation & staining of peripheral smear. Mention features of ideal smear.

**II. Short Essay (Answer any ten)**

**10x5=50Marks**

4. Benedicts test .
5. Absolute Eosinophil count.
6. Packed cell volume.
7. Platelet count.
8. RBC morphology.
9. Fixatives in histopathology.
10. Dehydration.
11. Impregnation .
12. Errors in section cutting
13. Carnoy's fluid
14. Papanicolaou stain
15. Quality control in Hematology

**III Short Answers**

**10x2=20Marks**

16. Poikilocytosis with examples
17. Draw diagram of eosinophil & label.
18. Name two clearing agents.
19. Cells seen in urine.
20. Name two casts in urine.
21. Two Methods of Haemoglobin estimation.
22. What is Mean Corpuscular Volume (MCV) and its Normal range
23. Name two hemoparasites
24. Significance of Buffy coat
25. Uses of Neubaur's chamber.

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October-2015**  
**I Year Diploma in Medical X-Ray Technology/II Year Certificate course in Medical**  
**X-Ray Technology**

**PHYSIOLOGY**  
**QP CODE - 2123**

**Time: 1:30 Hours**

**Max. Marks: 45**

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

**1x10=10**

- 1) What is Glomerular Filtration Rate (GFR)? What are the factors affecting it. Give any one method of its measurement in man.
- 2) Describe the sequence of events in a cardiac cycle.

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

**5x5=25**

- 3) Functions of platelets.
- 4) Bile salts.
- 5) Structure of neuron.
- 6) Transport of oxygen.
- 7) Distribution of body fluid compartments.
- 8) Indications of blood transfusion.
- 9) Functions of cerebellum.

**III. Write short answers.**

**5x2=10**

- 10) Normal bleeding time and clotting time.
- 11) Myopia and its corrections.
- 12) Name two types of muscles.
- 13) Cretinism.
- 14) Normal pulse rate and respiratory rate .

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October-2015**  
**I Year Diploma in Medical Records Technology/II Year Certificate course in Medical**  
**Records Technology**  
**Hospital Statistics & Biostatistics**  
**QP CODE - 2145**

**Time: 3 Hours**

**Max. Marks: 90**

**1. Long essays**

**4X10=40**

1. What are the uses of registration of births and deaths? What's the procedure for registration of births and deaths in our state?
2. Describe the normal distribution curve.
3. What is sampling? Describe various types of sampling in brief with examples.
4. What is population census? How population census is conducted in India.

**2. Write briefly on any ten**

**10X4=40**

5. How to calculate bed turnover ratio.
6. Admission and discharge analysis.
7. Alpha index cards.
8. ICD classification of diseases.
9. Record maintained at emergency room.
10. What are primary hospital data?
11. Differentiate mean median and mode.
12. Uses of computers in medical records department.
13. Record linkage.
14. Delay in vital registration.
15. Write briefly Organization of the medical record department.

**3. Write briefly on any five**

**5X2=10**

16. Deficiency check.
17. Bar chart.
18. Sources of hospital data.
19. Name four Notifiable diseases.
20. Name four registers maintained at the medical record department.
21. Medical audit.

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**PARA MEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATIONS — OCTOBER 2015.**

I Year Diploma In Dental Hygiene / II Year Certificate Course In Dental Hygiene  
**GENERAL BIOCHEMISTRY AND RADIOLOGY**

Note : write section A & section B in separate answer books

**Time —1 1/2hrs**

**Max marks : 45**

**QP CODE — 2185**

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

**I. LONG ESSAY - ANSWER ANY ONE** **1x10=10**

- 1 . What are Carbohydrates? Classify with suitable examples. Add a note on disadvantages of overconsumption of sugars on oral hygiene.
2. Classify minerals and add a note of calcium and phosphorous on dental health.

**II. WRITE SHORTNOTES ON ANY THREE** **3x5=15**

3. Scurvy
4. Mastication
5. Diet in facial trauma
6. Fluorosis

**QP CODE — 2186**

**SECTION — B, General Radiology (Write in separate answer book)**

**I. Write short notes** **4x5=20**

- 1) Processing solutions
- 2) Intra-oral techniques in dental radiography
- 3) Structure of atom and atomic number
- 4) Orthopantomogram (OPG)

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October-2015**  
**I Year Diploma in O.T. Technology/II Year Certificate course in**  
**O.T. Technology**

Time —3 hrs

Max marks : 90

QP CODE — 2135

**SECTION — A, Anatomy (Write in separate answer book)**

**I. Long essay - Answer any one** **1 X 10 = 10**

- 1) Name the parts of respiratory system. Describe lungs in detail.
- 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) Liver.
- 4) Right ventricle.
- 5) Thyroid gland.
- 6) Supports of uterus.
- 7) Abdominal aorta.
- 8) Ovary.

**III. Write short answers** **5 X 2 = 10**

- 9) Name the paranasal sinuses.
- 10) Functions of spleen.
- 11) Name four carpal bones.
- 12) Mitochondria.
- 13) Name the types of cartilage.

QP CODE — 2136

**SECTION — B, Physiology (Write in separate answer book)**

**I. Long Essay- Answer any ONE** **1x10=10**

- 1) Describe the morphology, development and functions of leucocytes
- 2) Describe the mechanism of respiration. Define lung compliance. Mention any two conditions which reduce lung compliance

**II. Write short notes on — any FIVE** **5x5=25**

- 3) Abnormal constituents of urine.
- 4) Functions of calcitonin.
- 5) Gastric emptying.
- 6) Contents of middle ear and its functions.
- 7) Name the hormones of adrenal cortex.
- 8) Cerebrospinal fluid.

**III. Write short answers.** **5x2=10**

- 9) Functions of bile.
- 10) Indicators of ovulation.
- 11) Olfactory pathway.
- 12) Dark adaptation.
- 13) Define bleeding time and clotting time

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**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination, October-2015**  
**I Year Diploma in Dialysis Technology/II Year Certificate course in**  
**Dialysis Technology**

Time —3 hrs

Max marks : 90

QP CODE — 2155

**SECTION — A, Anatomy (Write in separate answer book)**

**I. Long essay - Answer any one** **1 X 10 = 10**

- 1) Name the parts of female reproductive system. Describe uterus in detail.
- 2) Name the parts of central nervous system. Describe cerebellum in detail.

**II. Write short notes on any five** **5 X 5 = 25**

- 3) Pancreas.
- 4) Right ventricle.
- 5) Thyroid gland.
- 6) Histology of vein.
- 7) Mediastinum.
- 8) Testis.

**III. Write short answers** **5 X 2 = 10**

- 9) Name the paranasal sinuses.
- 10) Functions of pituitary gland.
- 11) Name four bones of lower limb.
- 12) Golgi apparatus.
- 13) Name the muscles of thoracic wall.

QP CODE — 2156

**SECTION — B, Physiology (Write in separate answer book)**

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

1. Name the plasma proteins and add a note on its functions
2. Describe the mechanisms of formation of urine.

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

3. Juxta glomerular apparatus and its functions
4. Cystometrogram
5. Non renal functions of kidney
6. Micturation reflex
7. Define Glomerular Filtration Rate (GFR) and how it is measured
8. Short term regulation of blood pressure
9. Erythroblastosis foetalis.

**III. WRITE SHORT NOTES ON ANY FIVE** **(5 X 2 = 10)**

- 10, Normal serum Creatinine and Blood Urea values
11. Heart sounds
12. Erythropoietin
13. ESR
- 14, Leucocytosis And Leucopenia

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION , October- 2015**  
**I YEAR DIPLOMA IN HEALTH INSPECTOR / II YEAR CERTIFICATE**  
**COURSE IN HEALTH INSPECTOR**

**PAPER II**  
**QP CODE- 2112**

Time: 3hrs

Max. Marks: 90

**I. Long essay – Answer any two of the following** 2x10 =20

1. List out the causes of PEM(Protein Energy Malnutrition) in children.  
How do you prevent Protein Energy Malnutrition?
2. Discuss the various methods of Solid Waste Disposal.
3. Enumerate the causes of Air Pollution. List the effects of air pollution on health.

**II. Short Essays –Answer any TEN** 10x5 = 50

4. Global warming
5. Sanitation barrier
6. Explain food adulteration with examples and what are its control measures.
7. Food fortification
8. Pasteurization of milk
9. Write the control measures for hook worm infestation
10. Explain different food habits related to diseases
11. What are the criteria for healthful housing?
12. Health hazards caused by radiation exposure
13. Write a note on water borne disease and their prevention.
14. What are the effects of overcrowding on health?
15. Sulabhsouchalaya

**III. Short answers** 10x2 = 20

16. Rickets
17. Purification of water at house hold level
18. Name four food items rich in iron
19. Effects of noise on health
20. Natural ventilation
21. Write two sources of vitamin C
22. Super chlorination
23. Uses of bleaching powder
24. Name the diseases caused due to excess fat consumption
25. Write four sources of proteins.

**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION OCTOBER 2015**  
**II D.P.T ELECTRO DIAGNOSIS & ELECTROTHERAPY**  
**QP CODE - 3197**

**Time: 3 hrs**

**Max. Marks: 90**

**1 Long Essay - Answer any TWO**

**2 X 15 = 30**

1. Define Interferential therapy (IFT). Describe its indication and hazards.
2. Explain different electro therapeutics for heat and cold and its physiological effects.
3. Discuss in detail about pain-gait theory

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

**3 X 10 = 30**

4. Ultra violet radiation.
5. Discuss the low frequency currents using in physiotherapy management.
6. Describe the procedure of drawing S.D. curve and its significance in electrodiagnosis
7. Discuss the various bio feedback used in physiotherapy.

**III. Write short notes**

**6 X 5 = 30**

8. Explain faradism under pressure.
9. Contraindication for Transcutaneous Electrical Nerve Stimulation (TENS).
10. Oedema management.
11. Rheobase and chronoxia.
12. Luminous generation in infrared.
13. Kinetic and potential energy.

**PARAMEDICAL BOARD, BANGALORE**  
**Annual Examination October 2015**  
**I DPT — APPLIED KINESIOLOGY AND APPLIED PHYSIOLOGY**  
**QP CODE: 2198**

**Time: 3 Hrs**

**Max. Marks: 90**

**I. Answer any TWO 2x15 = 30**

1. Describe the biomechanics of respiration.
2. Describe the movement analysis of 'SIT TO STAND' from a chair.
3. Describe the scapulohumeral rhythm in detail.

**II. Answer any THREE 3x10 = 30**

4. Friction instruments in biomechanics laboratory.
5. Biomechanics of TMJ.
6. Discuss in detail about lumbo-pelvic rhythm.
7. Ramp and fast movement.

**III. Write short notes on any FIVE 5x6 = 30**

8. Describe gravity, COG and LOG with diagram.
9. Knee stability.
10. Ballistic movements.
11. Use of springs in physiotherapy.
12. Mention the principles of orthosis with examples.
13. Define elasticity.
14. Human Gait

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION – OCT 2015**  
**III D.P.T – MANAGEMENT CONCEPT IN PHYSIOTHERAPY &**  
**RESEARCH METHODS**

**QP CODE – 3207**

**Time: 3 hrs**

**Max. Marks: 90**

**Long Essay - Answer any FOUR**

**4 X 15 = 60**

1. Describe the procedure to be followed for purchase of various materials to physiotherapy department.
2. Explain the hospital record maintenance. How do they help in hospital management?
3. Define the term auditing. Describe the objective and role of auditing applicable to hospital.
4. What do you mean by research? Describe various steps adopted in research methodology.
5. Give an account of Maslow's theory of motivation. State its managerial implication.

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

**5X 6 =30**

6. Job description.
7. Describe budget. What is hospital budget?
8. Delegation and elements of delegation of authority.
9. Matrix organization.
10. ABC analysis.
11. Principles of banking.

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**PARAMEDICAL BOARD, BANGALORE**  
**ANNUAL EXAMINATION OCTOBER 2015**  
**III D.P.T — COMMUNITY BASED REHABILITATION**  
**QP CODE - 3208**

**Time: 3 hrs**

**Max. Marks: 90**

**I Long Essay - Answer any FIVE**

**5 X 12 = 60**

1. What are social education and vocational training for disability in CBR?
2. What is community awareness? What are the various awareness programmes ?
3. Explain the advantage and disadvantage of mobile rehabilitation unit.
4. Explain the role of various health care personnel required for an effective rehabilitation programme.
5. Differentiate the urban and rural CBR objective and its scope in physiotherapy.
6. Discuss the role of home exercises in CBR.

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

**5 X 6 = 30**

7. Define ergonomics. Add a note on ergonomics for computer personnel.
8. Poliomyelitis.
9. Advantage and disadvantage of institutional services.
10. Comprehensive rehabilitation.
11. Agencies involved in rehabilitation of physically handicapped.
12. Extension services.

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