

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year D.P.T**  
**PATHOLOGY**  
**QP CODE - 3191**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essays – Answer any THREE**

**3 x 10 =30**

- 1) Define and classify Anemia's and discuss blood picture and bone marrow findings in Megaloblastic anemia.
- 2) Define osteomyelitis and discuss pathogenesis and pathology of pyogenic osteomyelitis.
- 3) Define Necrosis and discuss different types of Necrosis.
- 4) Discuss lobar pneumonia in detail.

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

**12 x 5 =60**

- 5) Primary intention of healing.
- 6) Sequestrum.
- 7) C.S.F finding in T.B meningitis.
- 8) Primary complex.
- 9) Blood picture and bone marrow findings in megaloblastic anemia.
- 10) Air embolism.
- 11) Fate of thrombus.
- 12) Bronchiectasis.
- 13) Viral carcinogens.
- 14) Rickets.
- 15) Dystrophic calcification.
- 16) Actinomycosis.
- 17) Etiology of atherosclerosis.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Write briefly on etiology, classification and management of cataract.
- 2) Write briefly on methods of sterilization using moist heat and about autoclave in ophthalmic surgeries.
- 3) Write briefly on differential diagnosis of acute red eye and management of acute conjunctivitis.

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

**10 x 5 = 50**

- 4) Evisceration.
- 5) Schirmer test.
- 6) Blepharitis.
- 7) Fundus examination in systemic diseases.
- 8) Acute dacryocystitis.
- 9) Trial frame and test lenses.
- 10) IOL power calculation in cataract patients.
- 11) Chalazion.
- 12) ETO sterilization.
- 13) Congenital cataract.
- 14) Atropine sulphate.
- 15) Difference between direct and indirect ophthalmoscopy.

**III. Write short answers**

**10 x 2 = 20**

- 16) Povidone Iodine.
- 17) Mention methods of sterilization using dry heat.
- 18) Mention two signs of Trichiasis.
- 19) Causes of painless loss of vision.
- 20) Astigmatic fan.
- 21) Hirschberg test.
- 22) Mention four causes of excessive tearing.
- 23) Instillation of eye drops.
- 24) Mention two systemic investigations required for cataract surgery.
- 25) Two causes for lagophthalmos.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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. What is Glucogenesis? Write the pathway of Glucogenesis. Mention their key enzymes.
2. Write detail role of Auto analyzer in clinical Biochemistry.
3. Write in detail about the regulation of blood glucose.

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

**10 x 5 =50**

4. Digestion & absorption of proteins.
5. Colorimeter.
6. Vandenberg's test.
7. Auto analyser.
8. Absorption of lipids.
9. Role of HCL in protein digestion.
10. GTT.
11. Gastric juice.
12. Factors affecting in protein digestion.
13. Flame protector.
14. Urea cycle.
15. Chromatography.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

16. Uric acid.
17. Urinometer.
18. Normal range of a) Direct Bilirubin b) Indirect Bilirubin.
19. Folin Wu tube.
20. Cardiac markers.
21. ISE.
22. Reagent kits.
23. Clinical importance of Acid phosphatase.
24. Maintenance of statistics in clinical laboratory.
25. Graduated pipette.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Describe the epidemiology of Cholera. Discuss prevention and control of it.
- 2) Describe the epidemiology of Dengue fever. Describe the methods of prevention.
- 3) Describe the epidemiology of HIV in India. Discuss in detail PPTCT Programme.

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

**10 x 5 = 50**

- 4) Salk vaccine.
- 5) Super ORS.
- 6) Nocturnal periodicity in Filariasis.
- 7) Tracking in Hypertension.
- 8) Hepatitis C.
- 9) National immunization schedule.
- 10) Obesity and health hazards.
- 11) 'High risk group' in ANC.
- 12) Role of social and cultural factors in health and disease.
- 13) First aid for Burns.
- 14) Vector control methods.
- 15) Prevention of coronary heart disease.

**III. Write short answers**

**10 x 2 = 20**

- 16) Diseases transmitted by faeco-oral route.
- 17) Oral contraceptives.
- 18) Food toxins.
- 19) Condom.
- 20) PEM.
- 21) IFA tablets.
- 22) Barriers of communication.
- 23) Droplet infections.
- 24) Sanitary well.
- 25) Pasteurization of milk.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year Diploma in Medical X- Ray Technology/ III Year Certificate course**  
**in Medical X- Ray Technology**  
**RADIOGRAPHY INCLUDING RADIOLOGY PHYSICS , (O.S) R-I**

**QP CODE – 1001**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) What are intensifying screens? Draw a neat diagram of the cross section of an intensifying screen.
- 2) What are the common causes of tube failure? What steps you take to extend Useful tube life?
- 3) Write in detail about grids.

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

**10 x 5 = 50**

- 4) Storage of unexposed and processed X-ray films.
- 5) Fogging.
- 6) Air bells.
- 7) Capacitors.
- 8) Line focus principle.
- 9) Blooming.
- 10) Fluoroscopy.
- 11) Composition of Fixer.
- 12) Anode – heel effect.
- 13) H and D curve.
- 14) Safe light.
- 15) Lead barrier.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Half life.
- 17) MMR.
- 18) Film hopper.
- 19) Radioisotopes used in medicine.
- 20) Inverse square law.
- 21) Indications for IVP.
- 22) Filters.
- 23) Thomas Alva Edison.
- 24) Stereoscopy.
- 25) Sivert.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 radiation protective measures you adopt in X-ray department with respect to a) Patient b) Technologist c) Public.
- 2) What is high MA/low KV radiography? Discuss where such technique is being used and the standard views taken to expose the part.
- 3) Describe the construction and working of an image intensifier.

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

**10 x 5 = 50**

- 4) Developer solution.
- 5) Photoelectric effect.
- 6) TLD badge.
- 7) Storage of X-ray films.
- 8) 10 day rule.
- 9) Hatch box.
- 10) Voltmeter.
- 11) Machine calibration.
- 12) Nuclear fission.
- 13) Barium swallow.
- 14) Pass box.
- 15) Axial view of shoulder.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Radioisotopes.
- 17) Gelatin.
- 18) Capacitors.
- 19) Mammography film.
- 20) Cassette.
- 21) Intensifying screen.
- 22) Half life.
- 23) Compton effect.
- 24) Molybdenum.
- 25) Collimators.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year Diploma in Medical Records Technology/ III Year Certificate**  
**course in Medical Records Technology**  
**MEDICAL TERMINOLOGY**

**QP CODE – 3141**

**Instructions to the candidates**

- 1) Write the answer in the question booklet itself and return to the invigilator.**
- 2) Before answering verify whether this booklet contains FIVE pages.**

**MEDICAL TERMINOLOGY**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER THE FOLLOWING**

**5 x 3 = 15**

- 1) Name five anatomical divisions of the Abdomen.
- 2) Define phobia and write any three phobias with their meanings.
- 3) Name five planes of the body.
- 4) Differentiate between prefix and suffix.
- 5) Differentiate between Fracture and Abortion.

**II. GIVE THE MEANING FOR THE FOLLOWING**

**5 x 1 = 5**

- a) Lysis.
- b) Itis.
- c) Scopy.
- d) Rhexis.
- e) Toxi.

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

**10 x 1 = 10**

- |                        |                  |              |
|------------------------|------------------|--------------|
| a) Surgical operation. | b) Tuberculosis. | c) Children. |
| d) Sickness & disease. | e) Self.         | f) Pain.     |
| g) Smell.              | h) Colours.      | i) Cat.      |
| j) Walking.            |                  |              |

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

**10 x 1 = 10**

- |            |             |
|------------|-------------|
| a) Myel.   | f) Pyo.     |
| b) Cost.   | g) Trachel. |
| c) Arth.   | h) Cerebro. |
| d) Cephal. | i) Spondye. |
| e) Leuko.  | j) Viscer.  |

**V. MATCH THE FOLLOWING**

**5 x 1 = 5**

- |            |                                |
|------------|--------------------------------|
| 1) Stasis  | 1. Dissolution, Breaking down. |
| 2) RRhagia | 2. Pain.                       |
| 3) Lysis   | 3. Contraction.                |
| 4) Algia   | 4. Standing still position.    |
| 5) Spasm   | 5. Bursting forth.             |

**PTO... 1**

**VI. DEFINE THE FOLLOWING**

**15 x 1 = 15**

- a) Marasmus.
- b) Rigor.
- c) Stenosis.
- d) Pott's spine.
- e) Lipoma.
- f) Dystocia.
- g) Geriatrics.
- h) Dysuria.
- i) Necrosis.
- j) Creptius.
- k) Leukemia
- l) Tinnitus.
- m) Diarrhea.
- n) Odontology.
- o) Dermatologist.

**VII. DIFFERENTIATE THE FOLLOWING TERMS**

**5 x 1 = 5**

- 1. Addiction & Adduction.
- 2. Brady cardia & Tachy cardia.
- 3. Chronic & Chromic.
- 4. Suppresion & Separation.
- 5. Inhalation & Instillation.

**VIII. GIVE THE MEDICAL TERMS**

**10 x 1 = 10**

- 1. Principles of cheek and nose.
- 2. Mole or birth mark.
- 3. The organ of voice is.
- 4. Loss of appetite.
- 5. Painless or absence of feeling pain.
- 6. Brain tumour.
- 7. Eating one kind of food.
- 8. Night blindness.
- 9. Bed wetting.
- 10. A malignant tumor or growth

**IX. DEFINE THE FOLLOWING**

**5 x 1 = 5**

- 1. Prognosis.
- 2. Dyspepsia.
- 3. Ascites.
- 4. Coma.
- 5. Stenosis.

**XI. EXPAND THE FOLLOWING ABBREVIATIONS**

**10 x 1 = 10**

- 1) FTND      2) CSF      3) PCOD      4) GIST      5) ASOM
- 6) URTI      7) VDRL      8) ARDS      9) IUD      10) TURP

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year Diploma in Dental Mechanics / III Year Certificate course in Dental**  
**Mechanics**  
**(FINAL) (O.S) PAPER – I**  
**QP CODE – 1016**

**Time: 3 hrs**

**Max. Marks: 75**

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

**2 x 10 = 20**

- 1) Define dental surveyor. Discuss the uses and importance of dental surveyor.
- 2) Classify fixed partial dentures and discuss various types of pontics.
- 3) Mention and discuss principles of arrangement of teeth.

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

**8 x 5 = 40**

- 4) Components of cast partial denture.
- 5) Types of expansion screws.
- 6) Define retainers and mention different retainers used in fixed partial prosthodontics.
- 7) Mention different types of casting machines.
- 8) Overjet and overbite.
- 9) Dental ceramics classification and its own uses.
- 10) Classify dental ceramics and mention its uses.
- 11) Classify direct retainer and mention their parts.
- 12) Mention different type of connectors.
- 13) Casting defects.

**III. WRITE SHORT ANSWERS**

**5 x 3=15**

- 14) Sand blasting.
- 15) Hawley's appliance.
- 16) Refractory cast.
- 17) Custom made post.
- 18) Anchorage force.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Define dental cast. Mention the different types of cast and write the parts of cast.

**II. WRITE SHORT NOTES**

**5 x 5 = 25**

- 2) Compensatory curve.
- 3) Protrusive balance.
- 4) Difference between acrylic and porcelain teeth.
- 5) Mention the uses and materials used in occlusal rims.
- 6) Mean value articulator.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 7) Dewaxing.
- 8) Splints.
- 9) Bench curving.
- 10) Relining.
- 11) Repair of denture.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year Diploma in Dental Hygiene / III Year Certificate course in Dental**  
**Hygiene**  
**Paper -I (O.S)**  
**QP CODE – 1020**

**Time: 3 hrs**

**Max. Marks: 75**

**I. Answer the following**

**4x 10=40**

- 1) Describe in detail home care instructions and its importance.
- 2) Define dental plaque. What are its types & describe any one type of plaque.
- 3) Define calculus. Write its types, composition, attachments & theories.
- 4) Describe ANUG etiology and its clinical features.

**II. Write short notes on ANY SEVEN:**

**7 x 5 =35**

- 5) Stains.
- 6) Ulcers of mouth.
- 7) Supra gingival scaler.
- 8) Hydrogen peroxide.
- 9) Oral prophylaxis.
- 10) Chronic Gingivitis.
- 11) Leukoplakia.
- 12) Angular stomatitis.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Describe the role of oral prophylaxis in gingivitis and periodontal associated systemic diseases.

**II. Write short notes**

**5 x 5 =25**

- 2) Theories of calculus formation.
- 3) Role of microorganisms in mineralization of calculus.
- 4) HIV associated Periodontics.
- 5) Dental hygiene.
- 6) Hand scaling in dental practice.

**III. Write short answers**

**2 x 5 = 10**

- 7) Tooth brush.
- 8) Materia alba.
- 9) Free gingival.
- 10) Mobility.
- 11) Furcation involvement.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year Diploma in OT Technology/ III Year Certificate course in OT**  
**Technology**  
**GENERAL ANAESTHESIA & OPERATIVE PROCEDURE (O.S)**  
**QP CODE – 1005**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Describe various post operative complications and its management.
- 2) Mention different types of skin grafts and describe how a skin graft is made for a non – healing ulcer of the foot.
- 3) Discuss the collection and storage of blood. Discuss blood transfusion.

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

**10 x 5 = 50**

- 4) Liver abscess.
- 5) Blood grouping and cross matching.
- 6) Psychological support for patient undergoing plastic surgery.
- 7) Intra ocular lens implant.
- 8) Special features of pediatric surgery.
- 9) Joint reconstruction.
- 10) Chemotherapy.
- 11) Epidural anesthesia.
- 12) Blood transfusion reaction.
- 13) Disposal of waste from OT.
- 14) Above knee amputation.
- 15) Laparoscopy.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Venesection.
- 17) Hilton's method of draining an abscess.
- 18) Pulse oximeter.
- 19) CVP.
- 20) Radiotherapy.
- 21) Muscle relaxants.
- 22) L.M.A
- 23) Epidural needle.
- 24) Arterial blood gas (ABG).
- 25) Cholecystectomy.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) What are the different types of anaesthesia? Describe the epidural anaesthesia in detail.
- 2) Define and classify analgesics. Describe in detail about morphine.
- 3) What are the parameters used in pre anaesthetic checkup for abdominal surgery?

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

**10 x 5 = 50**

- 4) Camilers.
- 5) Cryoanaesthesia.
- 6) Regional anaesthesia.
- 7) Pulse oximeter.
- 8) Hazards of massive transfusion.
- 9) Cystoscopy.
- 10) Blood transfusion reaction.
- 11) Patient safety programme.
- 12) Clinical competence.
- 13) Care of anaesthetized patient.
- 14) Induced hypothermia.
- 15) Anti cholinergic drugs.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Nitrous oxide.
- 17) Endotracheal tube.
- 18) Venesection.
- 19) Colloids.
- 20) Laryngeal mask.
- 21) Storage of blood.
- 22) Anti arrhythmic drugs.
- 23) Problems in elderly patients.
- 24) Fentanyl.
- 25) Cardiomimetic drugs.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year Diploma in Dialysis Technology/ III Year Certificate course in**  
**Dialysis Technology**  
**FUNDAMENTALS OF DIALYSIS TECHNOLOGY (FINAL) (O.S)**  
**QP CODE – 1012**

**Time: 3 hrs**  
**I. ANSWER ANY TWO**

**Max. Marks: 90**  
**2 x 10 = 20**

- 1) Describe the complications of dialysis in a patient on long term dialysis.
- 2) Discuss the etiology, clinical features and management of acute nephritis.
- 3) How do you monitor a patient on haemodialysis?

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

**10 x 5 = 50**

- 4) Evaluation of patient before haemodialysis.
- 5) Ultrafiltration.
- 6) Renin angiotensin system.
- 7) Predialysis for operation of equipment.
- 8) A.V Fistula.
- 9) Pseudogout.
- 10) Modes of heparinisation.
- 11) Reuse of dialysers.
- 12) Hypotension during analysis.
- 13) Hemoperfusion.
- 14) Protamine sulphate.
- 15) Reverse osmosis.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Name two complications of haemodialysis.
- 17) Name two plasma proteins.
- 18) Name two causes for acute chest pain in dialysis patient.
- 19) Name two functions of proximal convoluted tubules of kidney.
- 20) Write two complications of acute tubular necrosis.
- 21) Name two members of dialysis team.
- 22) What is deionization?
- 23) Name two psychiatric problems associated with haemodialysis.
- 24) Name two poisonings treated by dialysis.
- 25) Name two immune suppressant drugs.

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**PARAMEDICAL BOARD, BANGALORE**  
Supplementary Examination, July-2012  
**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) What are the causes of hypotension during haemodialysis? How will you manage such patients?
- 2) Define CKD & enumerate the stages of CKD.
- 3) Describe haemodialysis apparatus.

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

**10 x 5 = 50**

- 4) AAMI recommendations.
- 5) Dialyser reactions.
- 6) Indications & disadvantages of blood transfusion in dialysis patients.
- 7) Management of anemia in dialysis patients.
- 8) Catheter associated infections.
- 9) Serum calcium.
- 10) Keil dialyser.
- 11) Renal replacement therapies.
- 12) Slow continuous therapy.
- 13) Graft thrombosis.
- 14) Diet for dialysis patient.
- 15) Permacath.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Name any two viral infections transmissible by blood or blood products.
- 17) Mention two vaccines used in renal failure patients.
- 18) Mention two cat-ions.
- 19) Mention the two screening tests done before dialysis.
- 20) Mention two ESA.
- 21) Normal values of **a)** Serum sodium **b)** Serum calcium.
- 22) Mention any two adverse effects of heparin.
- 23) Antidote for heparin.
- 24) In which part of the body do you look for edema in person who is ambulatory (mobile)?
- 25) Name two dialysis membranes.

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**GOVERNMENT OF KARNATAKA  
PARAMEDICAL BOARD BANGALORE  
Supplementary Examination, July-2012  
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) Define wave motion. What are the characteristics? Mention the differences between transverse and longitudinal waves.
- 2) State Newton's law of motion with example.

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

**5 x 5 = 25**

- 3) Radiation and its application.
- 4) Scalars and vectors.
- 5) Speed, velocity and acceleration.
- 6) Transformers.
- 7) Electromagnetic induction.
- 8) State Ohm's law and its application.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 10) Speed.
- 11) Choke.
- 12) Surface tension.
- 13) State Boyle's law.
- 14) P-n junction.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**FIRST DPT – ANATOMY**  
**QP CODE – 2191**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Describe the right atrium.
- 2) Describe the stomach in detail.
- 3) Describe the Uterus in detail.

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

**10 x 5 = 50**

- 4) Structure of Nephron.
- 5) Gluteus Maximus.
- 6) Vas deferens.
- 7) Sternum
- 8) Pituitary Gland.
- 9) Humerus.
- 10) Carpal Bones.
- 11) Mandibular Nerve.
- 12) Diaphragm.
- 13) Cartilage.
- 14) Nasal Septum.
- 15) Facial Nerve.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Name 4 Tarsal bones.
- 17) Name 4 Endocrine glands.
- 18) Sessmoid bone
- 19) Lacrimal Gland.
- 20) Thymus.
- 21) Duramater.
- 22) Tendo achillis
- 23) Middle ear.
- 24) Parts of typical vertebra.
- 25) Connective tissue.

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**PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, July-2012**

**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) Explain in detail Pre-participatory education.
- 2) Explain Cardio respiratory adaptation to physical training.
- 3) Write down the various electrical modalities used in physiotherapy and their indications.
- 4) Discuss the clinical features and PT management of Cerebellar Ataxia.
- 5) List the investigations done in Cervical Spondylosis and explain PT management.

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

**5 x 5 = 25**

- 6) Sprain and Strain.
- 7) Runner's Knee
- 8) Bio feed back
- 9) Plantar fasciitis.
- 10) Supraspinatus Tendinitis.
- 11) Thrower's injury.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 the principle and procedure of Retinoscopy with diagram.
- 2) Describe the Physiology of Visual Pathway with diagram.
- 3) Aqueous Humor dynamics and clinical features of open angle glaucoma.

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

**10 x 5 = 50**

- 4) Strum's Conoid.
- 5) Astigmatism and various tests.
- 6) Anomalies of Accommodations.
- 7) Contact lenses and it's Hygiene.
- 8) Various corrections for Myopia.
- 9) Corneal Ulcer.
- 10) Binocular Single Vision.
- 11) Lacrimal Gland.
- 12) Decentering of IOL.
- 13) Vitamin A deficiency.
- 14) IPD and it's Uses.
- 15) PRISMS.

**III. Write short answers**

**10 x 2 = 20**

- 16) Layers of Retina.
- 17) SRK Formula.
- 18) Diagram of Optic Nerve head and it's Label.
- 19) A-Scan Uses.
- 20) LVA.
- 21) Drug routes in Ophthalmology.
- 22) Ocular Changes in Diabetes.
- 23) Anti-fungal Drugs.
- 24) Various corrections for Myopia.
- 25) Accommodation.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**

**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 different parts of Male reproductive system and discuss the gross anatomy of testis.
- 2) What are the different types of Cartilages? Give an account on Hyaline Cartilage.

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

**5 x 5 =25**

- 3) Microscopic structure of Larger artery.
- 4) Prostate Gland.
- 5) Mention bones of upper lips.
- 6) Lumbar Puncture.
- 7) Nerve supply of tongue.
- 8) Spinal cord
- 9) Synovial joint.

**III. Write short answers**

**5 x 2=10**

- 10) Draw a neat labeled diagram of Neuron.
- 11) Nucleus.
- 12) Name four structures at the hilum of left lung.
- 13) Name the cells of Bone and Cartilage.
- 14) Name the contents of Cubital fossa.

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

**QP CODE – 2102**

**I. Long Essay – Answer any ONE**

**1 x 10=10**

- 1) Define and classify Hypoxia. Explain them in detail.
- 2) Describe the origin, course and functions of Pyramidal tract.

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

**5 x 5 =25**

- 3) Normal ECG.
- 4) Juxtaglomerular apparatus.
- 5) Spermatogenesis.
- 6) Effects of mis-matched Blood transfusion.
- 7) Diabetes mellitus.
- 8) Describe Milk ejection reflex.
- 9) Cushing's syndrome.

**III. Write short answers**

**5 x 2=10**

- 10) Define ESR. What is its Normal value?
- 11) Family Planning methods in Male.
- 12) Dead Space.
- 13) Mention any two functions of Cerebellum.
- 14) Mention any two functions of Skin.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Describe work, power and energy. Explain different forms of energy.
- 2) What is rectification? Add a note on full wave rectifier and half wave rectifier with neat diagram.

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

**5 x 5 = 25**

- 3) Properties of X-rays.
- 4) Electromagnetic radiation.
- 5) Fleming's left hand rule.
- 6) Self Induction.
- 7) Photoelectric effect.
- 8) Large Focus.
- 9) Collimators.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 10) Ammeter.
- 11) Magnetic relays.
- 12) Isotopes.
- 13) Radioactivity decay
- 14) Thermistors.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**I Year Diploma in Medical Records Technology/II Year Certificate course**  
**MRS & MLA (O.S)**

**QP CODE – 1007**

**Note: Write section A & Section B in separate answer books**  
**Time: 3 Hrs Max.**

**Marks: 90**

**Section- A, Medical Records Science (Write in separate answer book)**

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

**1 x 10 = 10**

- 1) Write about the development of medical records in India.
- 2) What is the role of medical records in infection control? Explain the records maintained in the ward by staff nurse?

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

**5 x 5 = 25**

- 3) Functions of Central admitting records.
- 4) Qualitative and Quantitative analysis.
- 5) Write the principles of form design.
- 6) Terminal digit filling system.
- 7) Characteristics of good Medical records.
- 8) Flow chart of in-patient records.
- 9) Duties and responsibilities of Medical Record technician.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Death Register.
- 11) Hospital Census.
- 12) Casualty.
- 13) Miss-filing.
- 14) Deficiency check.

**Section- B, Medico Legal Aspects (Write in separate answer book)**

**QP CODE – 1007(O.S)**

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

**1 x 10 = 10**

- 1) Define general exception as per Indian Penal Code (Sec. 76 -106).
- 2) Explain four different types of search warrants.

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

**5 x 5 = 25**

- 3) Indian Evidence Act 1872.
- 4) Criminal Liability.
- 5) Principles of Estoppels and Promissory Estoppels.
- 6) Oral and Documentary Evidence.
- 7) Differentiate between Summon and Warrant.
- 8) Who is Public servant as per IPC?
- 9) What are the Rights of an Accused person?

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Relevancy of facts.
- 11) Judicial Notice.
- 12) Workmen's Compensation Act.
- 13) Cross Examination.
- 14) Malpractice suits.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Discuss in detail about Analysis of Medical records as Quantitatively and Qualitatively.
- 2) What are the different evidence & explain what is evidence as per Indian Evidence act 1872.
- 3) State briefly the acts that are exempted from criminal liability under IPC.
- 4) Discuss the legal aspects of Medical records.

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

**10 x 5 = 50**

- 5) Describe problem oriented Medical records.
- 6) Duties and responsibility of Medical Record Officer.
- 7) Terminal Digit filing.
- 8) Forms Control Program.
- 9) Numbering System.
- 10) Discharge and Acquittal.
- 11) Proclamation of an Absconder and attachment of property.
- 12) Medical Audit.
- 13) Values of medical record to the patient, doctor and hospital?
- 14) Write about numbering system & it's Merit and Demerit?
- 15) Movable and Non-Movable Properties.
- 16) Define Burden of Proof? When does the burden lies on the accused.
- 17) What is the difference between In-Patient & Out-patient facilities?
- 18) What are the process to Compile Appearance?

**III. WRITE SHORT ANSWERS**

**10 x 2=20**

- 19) Judicial Notice.
- 20) OPD.
- 21) Third Party Insurance.
- 22) High Court.
- 23) Cross Examination.
- 24) Medical board.
- 25) Decree.
- 26) Judge.
- 27) Plaintiff.
- 28) FIR

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**I Year Diploma/II Certificate Course in Dental Mechanics**  
**Applied Physics, Chemistry and Mechanics (O.S)**

**PAPER – I (O.S)**  
**QP CODE - 1014**

**Time: 3 hrs**

**Max. Marks: 75**

**I. LONG ESSAY**

**4 x 10 = 40**

- 1) Classify denture base material. Write about Compression moulding technique.
- 2) Write about principles of Electro technology applied to denture work.
- 3) What is Stress and Strain? Explain different types of Stress and Strain?
- 4) Write about Adhesion, Cohesion and their role in complete denture?

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

**7x 5 = 35**

- 5) Proportional Point.
- 6) Thermostat.
- 7) Capillarity.
- 8) Surface hardness.
- 9) Cantilever.
- 10) Syneresis.
- 11) Impression Plaster.
- 12) Young's Modulus.
- 13) Electroplating.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Classify dental investment materials. Write the composition and function of each ingredient of Phosphate bonded investment.
- 2) What is an Alloy? Mention the various alloys used in Prosthodontics. Write in brief about base metal alloys.

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

**5 x 5 = 25**

- 3) Tarnish and Corrosion.
- 4) Ductility and Malleability.
- 5) Types of Waxes.
- 6) Annealing and Tempering.
- 7) Reversible Hydrocolloid.
- 8) Types of Stainless steel.
- 9) Addition silicon impression material.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Nickel Chromium Alloys.
- 11) Divestment.
- 12) Cold Mould Seal.
- 13) 18-8 Stainless Steel.
- 14) Crazing.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**I Year Diploma/II Certificate Course in Dental Hygiene**  
**Note: Write section A & Section B in separate answer books**  
**PAPER – I (O.S)**  
**QP CODE – 1018**

**Time: 3 hrs**

**Max. Marks: 75**

**Section – A, ANATOMY (write in separate answer book)**

**I. Long Question – Answer any TWO**

**2 x 10=20**

- 1) Mention the muscles of mastication and facial expression. Describe Masseter.
- 2) Describe the soft palate in detail.
- 3) Draw a neat labeled diagram of a tooth and mention the dental formula in adults.

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

**5 x 5 =25**

- |               |                          |
|---------------|--------------------------|
| 4) Enamel.    | 7) Facial artery.        |
| 5) Taste bud. | 8) Papillae of tongue.   |
| 6) Mandible.  | 9) Blood supply of face. |

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

**QP CODE – 1018**

**I. Long Essay**

**1 x 10=10**

- 1) Describe the composition and functions of saliva.

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

**5 x 4 =20**

- 2) Functions of RBC.
- 3) Haemoglobin.
- 4) Deglutition and phonation.
- 5) Coagulation of blood.
- 6) Blood groups.
- 7) Functions of WBC.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Draw neat labeled diagram of a tooth and mention the dental formula in an adult.
- 2) Write in detail about the course and distribution of trigeminal nerve.

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

**2x 5 = 10**

- 3) Pulp.
- 4) Nerve supply of teeth.
- 5) Cementum.

**III. Write short answers**

**3 x2 =6**

- 6) Articular disc.
- 7) Medial pterygoid.
- 8) Submandibular gland.

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

**QP CODE – 2182**

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

**4 x 4 =16**

- 1) Phonation.
- 2) Cardiac cycle.
- 3) Synapse.
- 4) Hypertension.
- 5) Cell mitosis.
- 6) Salivary glands.

**II. Write short answers**

**2 x2 = 4**

- 7) Growth hormone.
- 8) Ribosome's.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**I Year Diploma in OT Technology /II Year Certificate course**  
**FUNDAMENTALS OF OT TECHNOLOGY (O.S)**  
**QP CODE - 1004**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Describe the preoperative preparation for abdominal surgery.
- 2) What is Boyle's apparatus? What are the anesthesia equipments used during Surgical procedures.
- 3) Discuss various types of cautery and precautions in using cautery.

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

**10 x 5 = 50**

- 4) Flash sterilization.
- 5) Defibrillator.
- 6) OT team.
- 7) Peripheral support area.
- 8) Tissue repair materials.
- 9) Preservation of specimen for histopathological examination.
- 10) Ambulatory surgery.
- 11) Sources of contamination in OT.
- 12) Central sterilization.
- 13) Bioburden.
- 14) Prevention of infection in OT.
- 15) Radiation hazards and safe guards.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Vacuum suction.
- 17) Disinfection.
- 18) Consent for surgery.
- 19) Local anesthetics.
- 20) Chemical sterilization.
- 21) Ventilators.
- 22) Laryngoscope.
- 23) Name two catheters to drain urine.
- 24) Linen packing.
- 25) Lithotomy position.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 the mechanism of wound healing and factors influencing wound healing and write any three methods of Haemostasis.
- 2) Describe the preservation of specimen and handling of the specimen to be sent for Histopathology and Microbiology.
- 3) Elaborate in detail about Pre – Operative nursing.

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

**10 x 5 = 50**

- 4) Exchange areas in OT.
- 5) Sources of contamination in OT.
- 6) Electrocautery.
- 7) Pulse Oximeter.
- 8) Intubation.
- 9) Harmonic Scalpel.
- 10) Sterilization of sharp instruments.
- 11) Wound closure materials.
- 12) Preparation for KUB X-ray.
- 13) Professional nursing versus Technical nursing.
- 14) Radiation hazards and safeguards.
- 15) Pre-operative checklist.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) IV cannulas.
- 17) Ventilators.
- 18) CPR.
- 19) Xylocaine.
- 20) Abdominal painting & Drapping.
- 21) Flash sterilization.
- 22) Methods of haemostasis.
- 23) Occupational hazards in OT persons.
- 24) Various methods to preserve specimens.
- 25) Gases used in OT.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**I Year Diploma in Dialysis Technology /II Year Certificate course**  
**FUNDAMENTALS OF DIALYSIS TECHNOLOGY (O.S)**

**QP CODE - 1011**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) What are Anticoagulants? Add a note on different types of anticoagulants used in Dialysis and its Complications?
- 2) Describe etiology, clinical features and management of acute renal failure?
- 3) What is reverse osmosis and what are its role in dialysis?

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

**10 x 5 = 50**

- 4) Functions of nephron.
- 5) Dialysis team.
- 6) Common infections associated with dialysis.
- 7) Saline Dialysis.
- 8) Chronic Renal Failure – Causes and clinical features.
- 9) Complications of peritoneal Dialysis.
- 10) Parts of artificial kidney.
- 11) Basis of Ultrafiltration.
- 12) A. V. Fistula.
- 13) Parts of artificial kidney.
- 14) Water purification systems.
- 15) Artificial kidney.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Endocrine functions of Kidney.
- 17) Name two common complications of dialysis.
- 18) Name two serum electrolytes.
- 19) Name two indications for emergency dialysis.
- 20) Name two Pathological constituents of Urine.
- 21) Name two dangerous components of water which are cleared by R.O system.
- 22) Name two methods used in reuse of hallow fibre kidney.
- 23) Write two contra indications for peritoneal dialysis.
- 24) Name two types of dialysis.
- 25) What is Proteinuria?

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 anti diabetic drugs. Add a note on preparations, uses and adverse effects of Insulin.
- 2) Classify penicillin's with examples. Explain the therapeutic uses and adverse effects of Benzyl penicillin.

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

**5 x 5 = 25**

- 3) Uses and adverse effects of Aspirin.
- 4) Rabies vaccine.
- 5) Intravenous route of drug administration.
- 6) Flavoring agents.
- 7) IV general anaesthetics.
- 8) Cotrimoxazole

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Name two anti-coagulants.
- 10) Vitamin C.
- 11) Succinyl choline.
- 12) Name drugs in Tuberculosis.
- 13) Name two uses of Morphine.

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

**QP CODE - 2152**

**I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Explain Anatomy of artificial kidney & also demonstrate diagrammatically the movement of Dialysate and blood during regular dialysis.
- 2) Describe Structure & Functions of Kidney.

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

**5 x 5 = 25**

- 3) Explain safety alarms in dialysis machine and describe any two in detail.
- 4) Dry Weight.
- 5) Vascular access.
- 6) ultrafiltration
- 7) Pseudo hypertension.
- 8) Dialysis dysequilibrium

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Erythropoeitin.
- 10) Contraindication for dialysis.
- 11) Name two toxins removed by dialysis.
- 12) Mention antidote for heparin.
- 13) Name any two Anticoagulant used during dialysis.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II DPT – PHARMACOLOGY**  
**QP CODE – 3192**

**Time: 3 hrs**

**Max. Marks: 90**

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

**4 x 15=60**

- 1) Classify Anticholinergic drugs. Discuss the indications, contra indications and adverse effects of Atropine.
- 2) Discuss various types of adverse drug effects.
- 3) Enumerate the drugs used in Tuberculosis. Write the uses and adverse effects of rifampicin.
- 4) Classify Beta blockers. Write the pharmacological action, uses and adverse effects of propranolol.
- 5) Classify local anaesthetics. Discuss the mechanism of action and uses of Lignocaine.

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

**4 x 5= 20**

- 6) Bronchodilators.
- 7) Intravenous route of drug administration.
- 8) Oral Contraceptives.
- 9) Mucolytics.
- 10) Paracetamol.

**III. Write short answers**

**5 x 2 =10**

- 11) Name two skeletal muscle relaxants.
- 12) Name two drugs used in peptic ulcer.
- 13) Sublingual route.
- 14) Name two fat soluble vitamins, write one deficiency state for each.
- 15) Name four antiviral drugs.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Outline the survey methodology.
- 2) Describe the organization and screening of school children for eye disease.
- 3) Explain in detail the procedure of disinfection of an operation theater.

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

**10 x 5 = 50**

- 4) Indications for keratoplasty.
- 5) Statistics rates and ratios.
- 6) Prisms.
- 7) OPD / IPD forms.
- 8) Demography and its uses.
- 9) Goals of NPCB.
- 10) Collection of Eye ball.
- 11) Preservation of corneal buttons.
- 12) Consent formats.
- 13) Record maintenance.
- 14) Keratomalacia and its management.
- 15) Vocational training of blindness.

**III. Write short answers**

**10 x 2 = 20**

- 16) Numerical index uses.
- 17) Minor surgical records.
- 18) Transportation of eye ball.
- 19) Consent for enucleation.
- 20) Testing of lacrimal sac patency.
- 21) Serological tests for eye donation.
- 22) Neutralisation of lenses.
- 23) Types of Bifocal lenses.
- 24) Maintenance of Tonometer.
- 25) Nursing care.

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# PARAMEDICAL BOARD, BANGALORE

## Supplementary Examination, July-2012

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 Essays (Answer any two)**

**2 x 10=20**

1. Define tissue processing. Steps involved in tissue processing. Write the differences between manual processing and automated tissue processing.
2. Mention different types of components used in blood bank. How do you prepare plasma and store in blood bank?
3. Classify haematoxylin. How do you prepare Harris's haematoxylin? Write the procedure of haematoxylin & Eosin staining.

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

**10 x 5 =50**

4. APTT.
5. Staining of bone marrow smears.
6. Microscopic examination of Sputum.
7. Procedure of indirect Coomb's test.
8. Cryostat.
9. Rh typing and its significance in blood bank.
10. Faetal haemoglobin.
11. Eligible donor.
12. Anticaagulants in blood banking
13. Sputum examination.
14. Sperm count.
15. Cross matching.

**III. Write short answers**

**10 x 2 = 20**

16. Sites of bone marrow aspiration.
17. Types of knives in section cutting.
18. What is sickle cell and draw the figure of sickle cell.
19. Role of medical officers in blood bank.
20. Landsteiner.
21. How do you dispose specimens?
22. Two sites of tapping of CSF.
23. Minor blood groups.
24. IDEAL BLOCK.
25. Name two clearing agents.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 Essays – (Answer any TWO)**

**2 x 10 = 20**

- 1) Briefly describe the national vector borne disease control programme.
- 2) What are the criteria for healthful housing. Describe in detail the housing standards.
- 3) Name the important Arthropod borne diseases. Discuss the epidemiology of Dengue syndrome.

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

**10 x 5 = 50**

- 4) Risk factors in Coronary Heart disease.
- 5) Tobacco related cancers.
- 6) ORS.
- 7) No scalpel vasectomy.
- 8) MTP act.
- 9) Differences between health education and health propaganda.
- 10) IUD.
- 11) Advantages of exclusive breastfeeding.
- 12) Define infant mortality rate.
- 13) M.D.T treatment in Leprosy.
- 14) Condom promotion.
- 15) ASHA worker.

**III. Write short answers**

**10 x 2 = 20**

- 16) Stress management.
- 17) Causes for Blindness in India.
- 18) UNICEF.
- 19) BCG vaccine.
- 20) Post coital contraception.
- 21) Safe period.
- 22) Mention the types of communication.
- 23) Disinfection of HIV virus.
- 24) Biochemical oxygen demand.
- 25) Name four milk borne diseases.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year Diploma in Medical X- Ray Technology/ III Year Certificate**  
**course in Medical X- Ray Technology**  
**RADIOGRAPHY INCLUDING RADIOTHERAPY, (O.S) R-II**  
**QP CODE - 1002**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) What is Brachytherapy? Discuss how you prepare the patient for the same.
- 2) What is gamma camera? Draw a diagram and discuss the principles of gamma camera.
- 3) Describe in detail various types of machines used in radiotherapy department.

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

**10 x 5 = 50**

- 4) Dark room artifacts.
- 5) Therapy planning.
- 6) Cobalt therapy.
- 7) Therapy planning.
- 8) Isotopes.
- 9) Water phantom.
- 10) Skin source distance.
- 11) Halt valve.
- 12) Technetium 99.
- 13) MLC X-rays.
- 14) Pantomography.
- 15) Geiger muller counter.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Carpel bones.
- 17) Pass boxes.
- 18) Uses of bucky.
- 19) M A.
- 20) Latent image.
- 21) Indications for H.S.G
- 22) Two effects of X-rays.
- 23) Inherent fog.
- 24) Use of non screen films.
- 25) Two advantages of high K.V technique.

# PARAMEDICAL BOARD, BANGALORE

## Supplementary Examination, July-2012

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 the generations of CT – Scanners with diagram.
- 2) Discuss the technique of IVP in detail.
- 3) What are Medico legal records? Mention the time schedule maintenance of M.L.C films and records. Write briefly about the other types of records to be maintained in the radio diagnosis department.

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

**10 x 5 = 50**

- 4) Frog leg position.
- 5) MMR.
- 6) Contrast reactions.
- 7) Indication / contradiction of binder.
- 8) MRI.
- 9) Ultrasound.
- 10) Apicogram.
- 11) Sinogram.
- 12) T-tube cholangiogram.
- 13) Views in mammography.
- 14) Enteroclysis.
- 15) Ammeter.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Chambers of heart.
- 17) Spinal cord.
- 18) Non – ionic contrast.
- 19) Numbering of X-ray films and its importance.
- 20) C-arm.
- 21) Cobalt unit.
- 22) T2WI.
- 23) RIA.
- 24) Doppler study.
- 25) Ventricles of Brain.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 - ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Describe the role and functions of laboratories. Write the planning, organization of lab services.
- 2) Describe the organization and administration of medical records department of a medical college hospital.
- 3) What are hospital acquired infections? How do you prevent it.

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

**10 x 5 = 50**

- 4) Voluntary health agencies.
- 5) Functions of rural hospitals.
- 6) Health insurance.
- 7) Explain the problems in OPD.
- 8) Staffing pattern of the radiology department.
- 9) Add a note on fire protection services in a hospital.
- 10) Function of voluntary health agencies.
- 11) What are essential drugs? Write a note on need for essential drugs.
- 12) Describe the organization and structure of emergency department.
- 13) History of hospitals in India.
- 14) Medical ethics.
- 15) Organization of general hospital.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Qualities of a hospital administrator.
- 17) Role of computer in medical record department.
- 18) Ancillary services at OPD.
- 19) Classification of hospitals.
- 20) Ambulance services.
- 21) Inventory control.
- 22) Two bin system.
- 23) Paramedical worker.
- 24) Enlist the name of three hospital committees.
- 25) Functions of teaching hospital.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year Diploma in Dental Mechanics/ III Year Certificate course in**  
**Dental Mechanics (FINAL)**  
**Dental Materials and Metallurgy (O.S) PAPER – II**  
**QP CODE – 1017**

**Time: 3 hrs**

**Max. Marks: 75**

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

**2 x 10 = 20**

- 1) What is polymerization? Describe the chemical stages of polymerization.
- 2) What are the different types of impression materials used in dentistry? Describe the advantages and disadvantages of each material.
- 3) Mention the composition and write the properties of irreversible hydrocolloid.

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

**8 x 5 = 40**

- 4) Annealing and tempering.
- 5) Physical stages in setting of denture base resin.
- 6) Reversible hydrocolloid.
- 7) Dental inlay waxes.
- 8) Properties of heat cure acrylic resin.
- 9) Composition and uses of glass ionomer cement.
- 10) Use of gold in dentistry.
- 11) Mention two differences between porcelain teeth and acrylic teeth.
- 12) Flux and Anti flux.

**III. WRITE SHORT ANSWERS**

**5 x 3=15**

- 13) Slurry water.
- 14) Tarnish and corrosion.
- 15) Comb plaster.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 1/2 hrs**

**Max. Marks: 45**

**I. LONG ESSAY**

**1 x 10 = 10**

- 1) Define Pontic. What are different types of pontic and discuss the principles of pontic design.

**II. WRITE SHORT NOTES**

**5 x 5 = 25**

- 2) Mention different Die systems.
- 3) Parts of a surveyor.
- 4) Obturator.
- 5) Pindex system.
- 6) Parts of dental surveyor and its uses.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 7) Hawley's appliance.
- 8) Materials used in maxillofacial prosthesis.
- 9) Gingivally approaching clasp.
- 10) Centrifugal casting machine.
- 11) Kennedy's Class IV.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Discuss the aims and objectives of Dental health education in India.

**II. Write short notes**

**5 x 5 = 25**

- 2) Prevention of periodontal disease.
- 3) Prevalence of dental caries.
- 4) Plaque index.
- 5) Water fluoridation.
- 6) Oral hygiene index.

**III. Write short answers**

**5 x 2 = 10**

- 7) Inter-dental brush.
- 8) Oral prophylaxis.
- 9) Mouth wash.
- 10) Pit and fissure sealant.
- 11) Dental floss.

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**PARAMEDICAL BOARD, BANGALORE**  
Supplementary Examination, July-2012  
**II Year Diploma in OT Technology/ III Year Certificate course in**  
**OT Technology**  
**BASIC CONCEPTS IN SURGERY (O.S)**  
**QP CODE - 1006**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Define haemostasis and discuss the various methods of haemostasis.
- 2) What is ambulatory surgery? Discuss the various surgical procedures done in ambulatory surgery.
- 3) Classify the suture materials and discuss their uses.

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

**10 x 5 = 50**

- 4) Concepts of laparoscopic surgery.
- 5) Mechanism of wound healing.
- 6) Colonoscopy.
- 7) Skin staplers.
- 8) Monitoring the patient under spinal anaesthesia.
- 9) Uses of microscopes in surgery.
- 10) Methods of collecting specimen.
- 11) Antiseptic agents.
- 12) Checklist of the patient.
- 13) Absorbable suture materials.
- 14) Skin preparation for abdominal surgery.
- 15) Urinary catheterization.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Consent of the patient prior to surgery.
- 17) Ultrasound.
- 18) Cautery.
- 19) Ryle's tube.
- 20) Tourniquet.
- 21) Laryngoscope.
- 22) Lithotomy position.
- 23) Plethysmography.
- 24) Microsurgery.
- 25) CPR.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 incisions of Abdomen. Discuss in detail about lower abdominal incision.
- 2) Discuss pre – operative preparation for a patient of Thyrotoxicosis.
- 3) Discuss emergency LSCS.

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

**10 x 5 = 50**

- 4) Venesection.
- 5) Cataract surgery.
- 6) Incision and drainage.
- 7) Catheterization.
- 8) Incision and drainage.
- 9) Split skin graft.
- 10) Liver abscess drainage.
- 11) Operations for hydrocele.
- 12) Orchidectomy.
- 13) External fixator.
- 14) Various types of mesh in surgery.
- 15) Intercoastal drainage.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Phimosis.
- 17) Cholecystectomy.
- 18) Hilton's method of draining an abscess.
- 19) Lipoma.
- 20) Skin sutures.
- 21) Endoscopy.
- 22) Fistula.
- 23) Abdominal drain.
- 24) TURP.
- 25) Digital block.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**II Year Diploma in Dialysis Technology/ III Year**  
**Certificate course in Dialysis Technology**  
**PATIENT TEACHING, PERITONEAL DIALYSIS & RENAL**  
**TRANSPLANTATION(O.S)**  
**QP CODE - 1013**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Discuss the management of hypertension in a patient undergoing haemodialysis.
- 2) Discuss indications and precautions for acute dialysis in an ICU. Add a note on monitoring of the procedure.
- 3) Describe how do you educate a new patient for dialysis.

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

**10 x 5 = 50**

- 4) Bicarbonate dialysate.
- 5) Anticoagulants.
- 6) Continuous ambulatory peritoneal dialysis.
- 7) Proteinuria.
- 8) A.V fistula.
- 9) Non surgical renal replacement therapy.
- 10) Complications of acute renal failure.
- 11) Hyperkalemia – signs and its immediate management.
- 12) Immunosuppressant drugs.
- 13) Mismatched blood transfusion.
- 14) Complications of renal transplant.
- 15) Antihypertensive therapy in dialysis.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Normal values of i) blood urea ii) serum creatinine.
- 17) Dialysis disequilibrium.
- 18) Name two replacement fluids in plasmapheresis.
- 19) Merits and demerits of femoral catheterization.
- 20) Name two vaccines used in renal failure patients.
- 21) Name two indications for renal transplant.
- 22) Write normal values of serum bilirubin and serum albumin.
- 23) Peritonitis.
- 24) What is protein leakage?
- 25) Microalbuminuria.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 composition of dialysis team. Mention duties of each individual.
- 2) Dialysis of acutely ill patients. Problems & strategies.
- 3) Transplantation co-ordinators role in the team & functioning.

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

**10 x 5 = 50**

- 4) Haemoperfusion.
- 5) Special techniques used in dialysis.
- 6) Renal transplantation.
- 7) CRRT.
- 8) Plasmapheresis.
- 9) Psychiatric complications in haemodialysis.
- 10) AV fistula care.
- 11) Dry weight.
- 12) Recirculation in dialysis.
- 13) Anticoagulants.
- 14) Diet in end stage renal disease.
- 15) Peritoneal equilibration test.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Merits and demerits of femoral catheterization.
- 17) Tests involved in renal transplantation.
- 18) Expand CVVHD & CAVHD.
- 19) Fever and chills during dialysis.
- 20) Name two vaccines for patients on haemodialysis.
- 21) Name two drugs which are dialyzable.
- 22) Name two endogenous toxins for which dialysis may be indicated.
- 23) Renal replacement therapy (RRT).
- 24) Non cardiogenic pulmonary edema.
- 25) Name two ESA.

**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, July-2012**  
**Common paper for all I year Certificate Courses**  
**CHEMISTRY**  
**(OLD & NEW SCHEME)**  
**QP CODE 1102**

**Time: 1 ½ hrs**

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

**40 (Old Scheme)**

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

**1 x 10 = 10**

- 1) How Sulphuric acid is manufactured by contact process and mention its uses.
- 2) Explain the manufacture of Hydrogen peroxide. Write its uses.

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

**5 x 5 = 25(NS)**

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

- 3) Biological importance of RNA & DNA.
- 4) Normality & Molarity.
- 5) Note on hormones.
- 6) Define molecular weight and equivalent weight.
- 7) What are indicators? Explain the different kinds of indicators.
- 8) Write the structure of sucrose and lactose.
- 9) Write any three properties and uses of Sulphuric acid.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Name any two enzymes.
- 11) Difference between organic and inorganic.
- 12) What is Denaturation of protein?
- 13) Differentiate between Lyophilic and Lyophobic solution.
- 14) Define pH of a solution.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Define Hormone? Name the hormone secreted by Pancreas and add a note on Insulin.
- 2) Name the hormones secreted by Pituitary gland? Describe the functions of any one Pituitary Hormone.
- 3) Describe the formation of Urine?
- 4) Name different blood groups. Add a note on Rh system and its importance.

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

**5x 5 =25**

- 5) Acid Base balance.
- 6) Testosterone.
- 7) ECG.
- 8) Name two types pressure changes that occur during respiratory cycle.
- 9) Name two Plasma Proteins.
- 10) Heart Sounds.

**III. Write short answers**

**5 x 2=10**

- 11) Functions of Spleen.
- 12) Differential Count.
- 13) Name two Plasma Protein.
- 14) Aldosterone.
- 15) Haemophilia.

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

**QP CODE - 2193**

**I. Answer any one**

**1 x 10=10**

- 1) What are Proteins? Mention their biological importance. Write a note on essential amino acid.
- 2) Define and classify Carbohydrates with examples. Mention the functions of Polysaccharides.

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

**1 x 5 = 5**

- 3) Sources and Functions of Calcium.
- 4) BMR.

**III. Write short answers**

**5 x 2=10**

- 1) Thyroxine.
- 2) Beriberi.
- 3) Renal function tests.
- 4) Coenzyme.
- 5) Deficiency of Vitamin D

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Discuss the Psycho-Physiological aspects of yoga.
- 2) Discuss the Effects & Use of Yogasanas.
- 3) What are rules and regulation to be followed during practice of Yogasana.
- 4) Explain the procedure of Jalanethi and benefits.
- 5) Discuss the concepts of Yoga.

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

**5 x 5 = 25**

- 6) Yoga Relaxation.
- 7) Dhyana and Samadhi.
- 8) Matured Personality.
- 9) Matsyasana.
- 10) Padmasanas.
- 11) Bandhas and Mudras.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**

**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) Describe etiology, diagnosis and treatment of Corneal Ulcer.
- 2) What are the common occupational hazards? How do you prevent them?
- 3) Describe Retinoscopy? Explain its principles, practice and prescription of glasses.

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

**10 x 5 = 50**

- 4) Trachoma.
- 5) Stages of diabetic retinopathy.
- 6) Prednisolone.
- 7) Chalazion.
- 8) Management of acute conjunctivitis – Do's and Dont's.
- 9) Contact Lenses.
- 10) Paralytic Squint.
- 11) Xerosis.
- 12) Peribulbar and Retrobulbar Anaesthesia.
- 13) Vitamin A deficiency.
- 14) Tab Acetazolamide.
- 15) Cycloplegics.

**III. Write short answers**

**10 x 2 =20**

- 16) Causes for amblyopia.
- 17) Mannitol.
- 18) Signs of aphakia.
- 19) Schiötz tonometry.
- 20) Pilocarpine nitrate.
- 21) Treatment of acute dacryocystitis.
- 22) Mention the organism causing Pseudo membranous conjunctivitis.
- 23) Bifocal glasses.
- 24) Mention three local anaesthetic agents.
- 25) Interpupillary distance.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 Lipids. Classify Lipids with suitable examples.
- 2) Discuss the principles, components and advantage of Spectrophotometer.
- 3) Mention the important minerals required by the body. Describe the sources daily requirement, biochemical functions and deficiency manifestations of phosphorous.

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

**10 x 5 = 50**

- 4) Enzymes of diagnostic importance.
- 5) Mutarotation.
- 6) Invert sugar.
- 7) Phospholipids.
- 8) Beer-Lambert Law.
- 9) Laboratory hazards.
- 10) Name four major minerals. Write their functions in the body.
- 11) PH meter.
- 12) Heteropolysaccharides, Starch and Glycogen.
- 13) Oxidoreductases and Transferases.
- 14) Weak acid and Strong Base.
- 15) Simple Proteins.

**III. Write short answers**

**10 x 2 = 20**

- 16) Biuret Test.
- 17) Seliwanoff's Test.
- 18) Write the uses of water bath.
- 19) Name two aliphatic amino acids.
- 20) Xanthoproteic Test.
- 21) Burette.
- 22) Heparin.
- 23) Salting out.
- 24) Triglycerides
- 25) Normality and Molarity.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**

**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**

**2 x 10 = 20**

- 1) Describe briefly an epidemiological Traid? Add a note on multi factorial Causation of disease.
- 2) Explain the role of social and cultural factors in health and disease.
- 3) Describe in brief anatomy of heart. Describe circulation of blood in human body.

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

**10 x 5 = 50**

- 4) Iceberg of disease.
- 5) Rehabilitation.
- 6) Live Vaccines.
- 7) Drug addiction.
- 8) Features of an Urban society.
- 9) Anthropology.
- 10) Role of emotions in health and disease.
- 11) Functions of Platelets.
- 12) Under five mortality rate.
- 13) Effects of alcohol on health.
- 14) Positive health.
- 15) Infant Mortality Rate.

**III. Write short answers**

**10 x 2 =20**

- 16) Broken Family.
- 17) Learning skills.
- 18) Primary prevention.
- 19) Disease outbreak.
- 20) Give two examples for genetic diseases.
- 21) Below Poverty Line (BPL).
- 22) Functions of Red Blood Cells (RBC).
- 23) Vitamin A Deficiency.
- 24) Incidence.
- 25) Pandemic.

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**PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, July-2012**

**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) Classify Muscular tissue. Describe in detail any one type of muscular tissue.
- 2) Name the parts of Brain. Describe briefly the gross anatomy of Cerebral hemisphere.
- 3) Name the parts of Digestive system. Describe briefly the gross anatomy of Stomach.

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

**5 x 3 = 15**

- 4) Cerebellum.
- 5) Thoracic duct.
- 6) Trachea.
- 7) Spleen.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 8) Vas deferens.
- 9) Name the salivary glands.
- 10) Vermiform appendix.
- 11) Hyaline cartilage.
- 12) Name four foramina of the skull.

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# PARAMEDICAL BOARD, BANGALORE

## Supplementary Examination, July-2012

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

### ANATOMY, PATHOLOGY & MICROBIOLOGY

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

Section-A ANATOMY (O.S) (write in separate answer book)

## QP CODE - 1008

Time: 3 hrs

Max. Marks: 90

### I. LONG ESSAY – ANSWER ANY ONE

1 x 10 = 10

- 1) Name the parts of digestive system. Describe briefly the Stomach.
- 2) List the endocrine glands. Describe the Pituitary gland.

### II. WRITE SHORT NOTES ON ANY FIVE

5 x 5 = 25

- |                     |                         |
|---------------------|-------------------------|
| 3) Fallopian Tubes. | 7) Pericardium.         |
| 4) Uterus.          | 8) Skin.                |
| 5) Arch of aorta.   | 9) Bones of upper limb. |
| 6) Rectum.          |                         |

### II. WRITE SHORT ANSWER

5 x 2 = 10

- |                                  |              |
|----------------------------------|--------------|
| 10) Mesentery.                   | 13) Mitosis. |
| 11) Epiphysis.                   | 14) Patella. |
| 12) Name the parts of the Colon. |              |

SECTION B – PATHOLOGY & MICROBIOLOGY (O.S) (write in separate answer book)

## QP CODE - 1009

### I. LONG ESSAY – ANSWER ANY ONE

1 x 10 = 10

- 1) Describe the preparation and staining of peripheral blood smear.
- 2) Discuss in detail maintenance of medical records in Pathology and Microbiology.

### II. WRITE SHORT NOTES ON ANY FIVE

5 x 5 = 25

- |                   |                        |
|-------------------|------------------------|
| 3) Widal Test.    | 6) Hanging drop test.  |
| 4) Mantoux Test.  | 7) Papanicolaou Stain. |
| 5) Sterilization. | 8) VDRL Test.          |

### III. WRITE SHORT ANSWER

5 x 2 = 10

- 9) Normoblast.
- 10) Name four culture media.
- 11) Different parts of Microscope.
- 12) Name two gram Positive bacilli.
- 13) Norma AEC count and Platelet count.

# PARAMEDICAL BOARD, BANGALORE

## Supplementary Examination, July-2012

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 and describe the kidney briefly.
- 2) Name the joints of Lower Limb and describe briefly Hip joint

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

2 x 5 = 10

- 3) Thyroid Gland.
- 4) Pancreas.
- 5) Spleen.

#### III. WRITE SHORT ANSWER

5 x 2 = 10

- 6) Taste Bud.
- 7) Mention the types of Cartilage.
- 8) Adipose Tissue.
- 9) Name the parts of Colon.
- 10) Gall bladder.

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

### QP CODE - 2143

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

4 x 5 = 20

- 1) Plasma Proteins
- 2) Formation of Urine.
- 3) Insulin.
- 4) Pancreatic Hormones.
- 5) Functions of Blood.
- 6) Draw a neat labeled diagram of Cell.

#### II. WRITE SHORT ANSWER

5 x 2 = 10

- 7) Vital Capacity.
- 8) Name two muscles of Respiration.
- 9) Name any two methods of Contraception.
- 10) Write two functions of Liver.
- 11) Name two types of Anemia.

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

### QP CODE - 2144

#### I. ANSWER ANY ONE

1 x 10 = 10

- 1) Describe the tests for abnormal constituents of urine.
- 2) Preparation and Staining of Peripheral Smear.

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

2 x 5 = 10

- 3) Bleeding Time & Clotting Time.
- 4) ZN Stain.
- 5) Gram's Stain.

#### III. WRITE SHORT ANSWER

5 x 2 = 10

- 6) Name four Fixatives.
- 7) Name four Preservatives used to preserve Urine.
- 8) Reticulocyte.
- 9) Name four culture media.
- 10) Name four Vaccines.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**I Year Diploma in Dental Mechanics / II Year Certificate course in**  
**Dental Mechanics**  
**(Preliminary APPLIED)**  
**PAPER – II (O.S)**  
**QP CODE - 1015**

**Time: 3 hrs**

**Max. Marks: 75**

**I. LONG ESSAY**

**4 x 10 = 40**

- 1) Write about denture supporting area. Discuss in detail about buccal shelf area.
- 2) Classify Articulators. Write the principles and uses of mean value articulators.
- 3) Describe the anatomy of Maxillary right central incisor.
- 4) Classify gypsum products .Write the composition and function of each ingredient of gypsum bonded investment.

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

**7x 5 = 35**

- 5) Sublingual seal area.
- 6) FDI Notating of primary and permanent dentition.
- 7) Types of Posterior teeth.
- 8) Irreversible hydrocolloid.
- 9) Mid palatine Raphae.
- 10) Denture relieving area.
- 11) Primary Cast.
- 12) Lab remounting.
- 13) Articular disc.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Mandibular denture supporting and limiting areas.
- 2) Describe the anatomy of Maxillary permanent first molar.

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

**5 x 5 = 25**

- 3) Compensating curves.
- 4) Class II occlusion.
- 5) Movements of temporomandibular joint.
- 6) Significance of incisive papilla.
- 7) Morphology of Mandibular canine.
- 8) Define centric relation and centric occlusion.
- 9) Balanced occlusion.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) List the tongue muscles.
- 11) Temporalis muscle.
- 12) Bilabial sounds.
- 13) Freni and its significance.
- 14) Lateral throat form.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**I Year Diploma in Dental Hygiene / II Year Certificate course in**  
**Dental Hygiene (Preliminary)**  
**PAPER – II (O.S)**  
**QP CODE - 1019**

**Time: 3 hrs**

**Max. Marks: 75**

**I. Answer the following**

**5x 10=50**

- 1) Describe the various antibiotics used in dentistry and their uses.
- 2) Define Cementum? What are its types, Composition and functions?
- 3) Define gingiva. Describe in detail morphological and histological features of normal gingiva.
- 4) What is periodontium? Describe the histology and functions of periodontal membrane.
- 5) What is inflammation? Describe the various types of inflammation with histological differences with diagrams. Add a note on repair.

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

**5x 5 =25**

- 6) Dentifrices.
- 7) Wasting disease of the teeth.
- 8) Hydrogen peroxide as mouth wash.
- 9) Functions of Periodontal ligament.
- 10) Scurvy.
- 11) Bacteria of Buccal cavity.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 sterilization. Describe the various methods of sterilization and infection control in dental practice .
- 2) Describe the process of wound healing.

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

**4x 5 =20**

- 3) Metastasis.
- 4) Hypersensitivity.
- 5) Attrition and Abrasion.
- 6) Enamel hypoplasia.
- 7) Antigen – Antibody reaction.

**III. Write short answers**

**3 x2 =6**

- 8) Erosion.
- 9) Vincent's oral disease.
- 10) Hypercementosis.

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

**QP CODE- 2184**

**I. Write short answers**

**5 x 2 =10**

- 1) Styptics.
- 2) Coagulants.
- 3) Vitamin K.
- 4) Local anesthesia.
- 5) Abrasives.

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# PARAMEDICAL BOARD, BANGALORE

## Supplementary Examination, July-2012

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. ANSWER ANY ONE

1 x 10 = 10

- 1) Write in detail about Urea cycle and disorders associated with urea cycle.
- 2) What is normal pH of blood? Describe the factors regulating the pH of blood in the body.

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

2 x 5 = 10

- 3) Metabolic acidosis.
- 4) Digestion and absorption of carbohydrate.
- 5) Proteins in blood.

#### III. WRITE SHORT ANSWERS

5 x 2 = 10

- 6) Hay's test.
- 7) Name two factors affecting pH.
- 8) Applications of ELISA.
- 9) Rothera's test.
- 10) Name types of jaundice.

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

### QP CODE - 2133

#### I. ANSWER ANY ONE

1 x 10 = 10

- 1) Classify Sulfonamides. Discuss the uses and adverse effects of sulfonamides.
- 2) Classify Analgesics. Write the uses and adverse effects of Morphine.

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

2 x 5 = 10

- 3) Calculate the amount of ingredients required to prepare 500ml of DNS (dextrose normal saline).
- 4) Diazepam.
- 5) Pancuronium.

#### III. WRITE SHORT ANSWERS

5 x 2 = 10

- 6) Name two inhalational anaesthetic agents.
- 7) Name two Antiseptics.
- 8) Name two anti allergic drugs.
- 9) Name two Amino glycosides.
- 10) Name two Cephalosporins.

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

### QP CODE - 2134

#### I. ANSWER ANY ONE

1 x 10 = 10

- 1) Describe morphology of bacteria with a neat labeled diagram. Add a note on Bacterial capsule.
- 2) Define and classify Immunity. Add a note on active immunity.

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

2 x 5 = 10

- 3) Fumigation.
- 4) Bacterial growth curve.
- 5) Robert Koch.

#### III. WRITE SHORT ANSWERS

5 x 2 = 10

- 6) Incineration.
- 7) Inspissation.
- 8) Name two sexually transmitted disease.
- 9) Type of microspores.
- 10) Pasteurization.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Write the pathway of Glycolysis. Add a note on its energetics.
- 2) Define digestion. Describe the digestion and absorption of protein.

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

**5 x 5 = 25**

- 3) Chromatography- application in dialysis.
- 4) Cardiac profile test.
- 5) Respiratory acidosis.
- 6) Serum electrolyte.
- 7) pH meter – Principle, application and maintenance.
- 8) Respiratory regulation of acid base balance.

**III. WRITE SHORT ANSWERS**

**5x 2 =10**

- 9) Vandenberg test
- 10) Define acid and base.
- 11) Isosthenuria.
- 12) Hay's test.
- 13) Hematuria and Hemoglobinuria.

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

**QP CODE - 2154**

**I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Write the pathogenesis of typhoid fever. Add a note on Widal test.
- 2) Write in detail about the morphology & laboratory diagnosis of Mycobacterium tuberculosis.

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

**5 x 5 = 25**

- 3) Biomedical waste disposal.
- 4) Sterilization of dialysis room.
- 5) Nasocomial infections.
- 6) Bacterial flagella.
- 7) Incineration.
- 8) Cell mediated immunity.

**III. WRITE SHORT ANSWERS**

**5x 2 =10**

- 9) Blood borne viruses.
- 10) Hepatitis B virus.
- 11) Edward Jenner.
- 12) Name two bacterial vaccines.
- 13) Classify levels of disinfection.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July – 2012**  
**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) Describe the clinical features, complications and management of Bronchial Asthma.
- 2) Describe the Clinical features, Investigation and management of acute stroke.
- 3) Describe the Clinical features, complications and management of Enteric fever.
- 4) What is Myocardial Infarction? Describe the clinical features and management of acute Myocardial Infarction.
- 5) What is Upper Motor Neuron and Lower Motor Neuron? Write the difference between them.
- 6) Discuss Etiology, clinical features and management and complications of Parkinsonism.

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

**6 x 5= 30**

- 7) Cholera.
- 8) Influenza H1N1.
- 9) Nephrotic Syndrome.
- 10) Angina Pectoris.
- 11) Obesity.
- 12) Myasthenia Gravis.
- 13) Management of Status Asthmaticus.
- 14) Hemiplegia.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July – 2012**  
**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. Discuss Pathogenesis and Laboratory diagnosis of Syphilis.
2. Enumerate the bacteria causing Urinary tract infection. Discuss laboratory diagnosis of Urinary tract infection.
3. How will you isolate and identify *Salmonella typhi* from blood obtained from patient with Typhoid fever.

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

**10 x 5 =50**

4. Universal Precautions.
5. Aspergillus.
6. Malignant Pustule.
7. Life cycle of Hookworm.
8. O. T. Sterilization.
9. CRP Test.
10. Laboratory diagnosis of Vibrio Cholera.
11. Weil-Felix Test.
12. Stool examination for Ova/Cyst.
13. DPT Vaccine.
14. Laboratory diagnosis of Gonorrhoea.
15. Laboratory diagnosis of HIV Infection.

**III. Write short answers**

**10 x 2 = 20**

16. Robertson Cooked meat media.
17. Name four species of Malaria.
18. Name two Parasites causing Anaemia.
19. Name two culture media used for growing fungi.
20. Name two acid fast organisms.
21. Name two Killed vaccines.
22. Name Bacterial zoonotic diseases.
23. Name opportunistic Fungi.
24. Name two Viruses Causing Diarrhoea.
25. Name chemical disinfectants.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July – 2012**  
**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) Write various health related Millennium Development goals in India.
- 2) Write in detail about the functions of WHO.
- 3) Write National immunization schedule. How do you plan for immunization camp in PHC.

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

**10 x 5 = 50**

- 4) "Health is a fundamental human right." Explain.
- 5) MTP Act
- 6) Indian Red Cross society.
- 7) Traditional Birth Attendant.
- 8) First – aid in Monkey bite.
- 9) Role of Ayurveda in Public health.
- 10) World Health Day.
- 11) Health Education.
- 12) Zoonosis.
- 13) Infant Mortality Rate.
- 14) Disinfection of Well.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 15) Aedes Mosquito.
- 16) Cold chain.
- 17) International Labour Organization.
- 18) "Time is money in health care services". Explain.
- 19) Child Labour Act.
- 20) Central Social Welfare Board.
- 21) Eligible Couples.
- 22) Importance of Breast Feeding.
- 23) Joint Family.
- 24) Dowry Prohibition.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July – 2012**  
**II Year Diploma in Medical X- Ray Technology/ III Year Certificate course**  
**in Medical X- Ray Technology**  
**RADIOGRAPHY INCLUDING MEDICAL RECORDS (O.S) R-III**  
**QP CODE – 1003**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) What are HT generators? Discuss the use of this in X-ray Machine.
- 2) What is IVP? Discuss in detail the techniques involved.
- 3) Discuss the record maintenance in Medico – legal section of Radiology department.

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

**10 x 5 = 50**

- 4) PNS View.
- 5) Hangers.
- 6) C.T Examination.
- 7) Composition of Fixer.
- 8) Replenisher.
- 9) Transducer.
- 10) Iodine.
- 11) Atomic Weight.
- 12) Chest X-ray PA View.
- 13) Ionic contrast media.
- 14) Liver.
- 15) Court summons.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Felix bloch.
- 17) Expand MMR.
- 18) Vertebral Column.
- 19) Lead.
- 20) Nuclear reactor.
- 21) Barium.
- 22) Aorta.
- 23) Chambers of heart.
- 24) Filters used in Mammography Tubes.
- 25) Doppler Study.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July – 2012**  
**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) Discuss briefly image formation in MRI. Add a note on Multi detector CT.
- 2) Discuss the principles of digital radiography. In what way digital radiography is different from conventional radiography.
- 3) What is digital subtraction angiography, discuss in detail the principles and technique and its Uses.

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

**10 x 5 = 50**

- 4) Teleradiology.
- 5) Sinogram.
- 6) M.C.U.
- 7) Soft tissue radiography.
- 8) Testing of cassette of screen contact.
- 9) Ultrasound.
- 10) Maintenance and handling of unexposed films.
- 11) Radiation Protection.
- 12) Dacrocystography.
- 13) Loopogram.
- 14) O.P.G (Orthopantomography).
- 15) Stereoscopy.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Film Fogging.
- 17) Half value layer.
- 18) T.L.D badge.
- 19) Contrast consent.
- 20) Colour Doppler scan.
- 21) Hip-joint X-ray.
- 22) Foreign body localization in abdomen.
- 23) Artefact.
- 24) Bronchography.
- 25) M R Angiogram.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July – 2012**  
**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 Networking and explain different types of networking.
- 2) Describe the role of computers in Medical records department.

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

**4 x 5 = 20**

- 3) Storage devices.
- 4) Input & Output devices of Computer.
- 5) Computer Viruses.
- 6) Internet.
- 7) Types of printers.
- 8) RAM and ROM.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 9) Monitor.
- 10) Pen Drive.
- 11) Laptop.
- 12) Keyboard.
- 13) CPU

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July – 2012**  
**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) Write in detail about various dental specialties.

**II. Write short notes**

**5 x 5 =25**

- 2) Material maintenance.
- 3) Sterilization of dental instruments.
- 4) Objectives and scope of dentistry.
- 5) Dental Act 1948.
- 6) Ethics in dental practice.

**III. Write short answers**

**2 x 5 = 10**

- 7) Dental auxiliaries.
- 8) Case record maintenance.
- 9) Care of dental instruments.
- 10) Filling Materials.
- 11) Dental health camps.

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**GOVERNMENT OF KARNATAKA**  
**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, July – 2012**  
**Common paper for all I year Certificate Courses**  
**BIOLOGY**  
**(OLD & NEW SCHEME)**  
**QP CODE 1103**

**Time: 1 ½ hrs**

**Max. Marks: 45 New Scheme**

**40 Old Scheme**

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

**1 x 10 = 10**

- 1) Draw a neat labeled diagram of the nephron and describe the formation of urine.
- 2) What are the different types of Tissue and Mention their functions.

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

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

**5 x 4 = 20 (O.S)**

- 3) Genetic Finger printing.
- 4) Structure of Neuron.
- 5) Fertilization.
- 6) DNA and RNA.
- 7) Digestion of Carbohydrates.
- 8) Aerobic and Anaerobic Respiration.
- 9) Liver.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Major parts of Brain.
- 11) Mitochondria.
- 12) Implantation.
- 13) Tidal Volume.
- 14) Name two viral infections.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 Immunity. Write in detail about Active immunity.
- 2) Draw a neat labeled diagram of HIV. Describe the modes of transmission and prevention of HIV infection.
- 3) Classify Gram positive anaerobes. Add a note on tetanus.

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

**10 x 5 = 50**

- 4) Candidiasis.
- 5) Hot air oven.
- 6) Pathogenesis of Poliomyelitis.
- 7) Widal test.
- 8) Lifecycle of Plasmodium falciparum.
- 9) Type I hypersensitivity.
- 10) Innate immunity.
- 11) Life cycle of Taenia solium.
- 12) Autoclave.
- 13) IgG antibody.
- 14) Coagulase test.
- 15) Life cycle of E.histolytica.

**III. Write short answers**

**10 x 2 =20**

- 16) Robert Koch.
- 17) Enriched media.
- 18) Classification of bacteria.
- 19) Clinical features and classification of leprosy.
- 20) Difference between Bacteria and Viruses.
- 21) Name two viral vaccines.
- 22) Gaseous disinfectants.
- 23) Laboratory diagnosis of intestinal amoebiasis.
- 24) Hepatitis B.
- 25) Laboratory diagnosis of cholera.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Define occupational therapy. Explain the principle of management of hemiplegic.
- 2) Principles of upper limb prosthesis training.
- 3) Explain the role of physiotherapy in managing foot drop.
- 4) Discuss the prevention and management of congenital contractures and deformities.
- 5) Disability evaluation – Role of physiotherapy.

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

**5 x 5 = 25**

- 6) Speech therapy.
- 7) Spinal orthosis.
- 8) Pelvis floor muscle weakness.
- 9) Explain group therapy in the community.
- 10) Pediatric physiotherapy.
- 11) Sach foot.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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**

- 1) Brief about normal composition of urine. Mention the different collection methods and preservatives of urine.
- 2) Write in detail on Erythropoiesis and Leucopoiesis. Draw the figure of different types of cells of leucopoiesis.
- 3) Describe staining procedure of Peripheral smear and add a note on total white cell count.

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

**10 x 5 = 50**

- 4) Decalcification.
- 5) Development of various blood components.
- 6) L E cell preparation.
- 7) CSF analysis.
- 8) Frozen section.
- 9) Clearing & mounting agents used in histopathology.
- 10) Cryostat.
- 11) Tissue processing.
- 12) Hb estimation – Sahli's method.
- 13) Westergreen's pipette.
- 14) Formalin fixatives.
- 15) Wintrobe's tube.

**III. Write short answers**

**10 x 2 = 20**

- 16) Bouin's fluid.
- 17) Preparation of acid alcohol used in H & E stain.
- 18) Sodium citrate solution.
- 19) Leucopenia.
- 20) What is Immuno cytochemical stain? Give one example.
- 21) Brilliant crystal blue stain.
- 22) Barr bodies.
- 23) Microcytes and Macrocytes.
- 24) Ketone bodies.
- 25) Bone marrow needles.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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**

**2 x 10 = 20**

- 1) Discuss the life cycle of Malarial parasite.
- 2) Describe the methods of purification of water on large scale.
- 3) List the community nutrition programmes and describe the implementation of ICDS programme.

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

**10 x 5 = 50**

- 4) Amoebiasis.
- 5) Prevention of Scabies.
- 6) Lathyrism.
- 7) Presumptive coliform test.
- 8) Iodine deficiency disorders.
- 9) Causes of P.E.M in our country.
- 10) Milk borne disease.
- 11) Slow sand filtration.
- 12) Measles vaccine.
- 13) First aid in snake bite.
- 14) Growth chart.
- 15) Prevention of malnutrition.

**III. Write short answers**

**10 x 2 =20**

- 16) Sulabh souchalaya.
- 17) Name ant two ectoparasites of man.
- 18) Pellagra.
- 19) Define low birth weight.
- 20) Global warming.
- 21) Cretinism.
- 22) Night blindness.
- 23) Slaughter house sanitation.
- 24) Horrocks apparatus.
- 25) Residual insecticide.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Define Erythropoiesis. With a neat labeled diagram describe the stages of Erythropoiesis.
- 2) Describe composition and function of gastric juice.

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

**5 x 5 = 25**

- 3) Mechanical events of cardiac cycle.
- 4) Define Hypoxia and explain its types.
- 5) Functions of saliva.
- 6) Functions of skin.
- 7) Function of testis.
- 8) Functions of Cerebellum.
- 9) Write a note on Electrocardiogram.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 10) Define Vital capacity. Give its normal value.
- 11) Name any two contraceptive measures for females.
- 12) Name two ascending tracts of spinal tract.
- 13) Give two characteristic features of Acromegaly.
- 14) Give normal values of blood cells.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**I Year Diploma in Medical Records Technology/ II Year Certificate course in**  
**Medical Records Technology**  
**HOSPITAL STATISTICS & BIostatistics**  
**QP CODE – 2145**

**Time: 3 hrs**  
**I. LONG ESSAY**

**Max. Marks: 90**  
**4 x 10 = 40**

- 1) Write the origin and definition of Statistics. What are the uses and misuses of statistics given in detail.
- 2) Describe the procedure for registration of births & deaths in rural & urban areas. Define crude birth rate & crude death rate .
- 3) Define correlation & regression with its formula & explain their importance in medical field.
- 4) What is population survey? Explain in detail various types of health surveys.

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

**10 x 4 = 40**

- 5) Representation of data.
- 6) Probability.
- 7) Measures of central tendency & dispersion.
- 8) Diseases register.
- 9) Pie charts.
- 10) Growth rate.
- 11) Null hypothesis.
- 12) Computer application in medical records department.
- 13) Graphical representations statistical data.
- 14) Sampling errors.
- 15) Maternal mortality rate.
- 16) Chi square test.

**IV) WRITE BRIEFLY ON ANY FIVE**

**5 x 2=10**

- 17) Admission & discharge.
- 18) Incidence & prevalence.
- 19) Unnecessary surgery rate.
- 20) Central birth & death registration.
- 21) Patient day.
- 22) Qualitative & quantitative data.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Describe the general food requirement for growth, maintenance and repair of the body.
- 2) Describe in detail the role of carbohydrate, fats, proteins, vitamins and water in oral health.

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

**3 x 5 = 15**

- 3) Diet diary.
- 4) Abnormal constituents of urine.
- 5) Trace elements in diet.
- 6) Fluoride.

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

**QP CODE - 2186**

**I. Write short notes**

**4 x 5 = 20**

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

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 the Urinary System. Describe Kidney in detail.
- 2) Name the parts of the Respiratory System and describe briefly the right lung.

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

**5 x 5 = 25**

- |                               |                     |
|-------------------------------|---------------------|
| 3) Blood supply of heart.     | 6) Pituitary gland. |
| 4) Spinal cord.               | 7) Spleen.          |
| 5) Histology of compact bone. | 8) Liver.           |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Skeletal muscle.
- 10) Lymph node.
- 11) Name four tarsal bones.
- 12) Great saphenous vein.
- 13) Give two histological differences between skeletal and cardiac muscle.

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

**QP CODE – 2136**

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

**1 x 10 = 10**

- 1) Describe coagulation mechanism of blood.
- 2) Describe synthesis, regulation and functions of thyroid hormones.

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

**5 x 5 = 25**

- |                           |   |
|---------------------------|---|
| 3) Functions of skin.     | 6) Functions of Oestrogen & Progesterone. |
| 4) Arterial pulse.        | 7) Hypoxia.                               |
| 5) Functions of placenta. | 8) Hypovolumic shock.                     |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Mention four functions of liver.
- 10) Name four temporary contraceptive methods.
- 11) Write down four functions of platelets.
- 12) Draw and label Neuromuscular junction.
- 13) Mention four functions of testosterone.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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 endocrine gland of the body. Describe briefly the thyroid gland.
- 2) Name the bones of upper limb. Describe briefly the shoulder joint.

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

**5 x 5 = 25**

- |                 |                           |
|-----------------|---------------------------|
| 3) Mediastenum. | 6) Testis.                |
| 4) Hip joint.   | 7) Tongue.                |
| 5) Prostrate.   | 8) Blood supply of heart. |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Mandible.
- 10) Name the four chambers of the heart.
- 11) Name any four endocrine glands.
- 12) Name any four carpal bones.
- 13) Name the salivary glands.

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

**QP CODE – 2156**

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

**1 x 10 = 10**

- 1) Explain with the help of diagram the mechanical changes during cardiac cycle.
- 2) Describe the mechanism of formation of urine.

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

**5 x 5 = 25**

- |   |                              |
|---|------------------------------|
| 3) Name the constituents of ECF & ICF.                    | 7) Describe glucocorticoids. |
| 4) What is normal ESR? Mention the factors influencing it | 8) Cushing's syndrome.       |
| 5) Plasma proteins & their functions.                     |                              |
| 6) Draw a labeled diagram of nephron.                     |                              |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Mention any two functions of WBC.
- 10) Name any two hormones secreted by adrenal gland.
- 11) Mention two types of anaemia.
- 12) Heart sounds.
- 13) Mention any two coagulants.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2012**  
**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) Discuss etiology, clinical features, complications and management of Peptic ulcer.
- 2) What are the clinical features of Cholecystitis and how do you manage the same?
- 3) Classify wounds and write in detail management of Intra abdominal injuries.

**II. Write short notes any THREE**

**3 x 5= 15**

- 4) Sebaceous cyst.
- 5) Amoebic liver abscess.
- 6) Pilonidal sinus.
- 7) Complication of inguinal hernia.

**III. Answer any TWO**

**2 x 15= 30**

- 8) What are the causes of fracture neck of femur in an elderly patient? How do you manage the same?
- 9) Discuss the clinical features of shoulder dislocation and how do you manage the same.
- 10) Describe the clinical features and management of cervical rib.

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

**3 x 15= 15**

- 11) Malunion of fracture.
- 12) Wound debridement.
- 13) Osteomyelitis.
- 14) Neuropraxia.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2012**  
**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 briefly about the sources for third & fourth character classification.
- 2) Explain the hierarchical structure of ICD 10<sup>th</sup> edition.
- 3) What are the special points that coder should remember while coding?
- 4) Discuss the coding procedure for external injuries.
- 5) Define Coding. Discuss the right way of coding diabetes mellitus and its complications.

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**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, July - 2012**  
**Common paper for all I year Certificate Courses**  
**ENGLISH**  
**(OLD & NEW SCHEME)**  
**QP CODE 1104**

**Time: 1 ½ hrs**

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

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

**1 x 15 = 15**

**1 x 10 = 10**

- 1) Corruption.
- 2) Traffic jam.

**II. ANSWER ANY ONE**

**1 x 10 = 10**

- 3) Write a letter to the Commissioner of police, requesting him to grant license to carry arms giving valid reasons.
- 4) Write a letter of Condolence to your friend whose father recently died.

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

**5 x 1 = 5**

- 5) Ox.          6) Actor.          7) Bachelor.          8) Step father.          9) Master.

**IV. WRITE THE OPPOSITE OF THE FOLLOWING**

**5 x 1 = 5**

- 10) Uncle.          13) Humble.
- 11) Laugh.          14) Great.
- 12) Beautiful.

**V. MAKE THE SENTENCES USING THE FOLLOWING**

**5 x 1 = 5**

- 15) Not only.
- 16) Put an end.
- 17) To give up.
- 18) In spite of.
- 19) Refused.

**VI. FILL IN THE BLANKS**

**5 x 1 = 5**

- 20) Honest men speaks ..... truth.
- 21) ..... Sun shines brightly.
- 22) He looks as stupid as ..... Owl.
- 23) I prefer Tea ..... Coffee.
- 24) Your mouth is ..... Your nose.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Define psychology. Discuss the subject matter of psychology and explain any two methods of psychology. Add a note on uses of psychology to physiotherapy.
- 2) Define personality. Give the classification and characteristics with examples.
- 3) Describe the influence of heredity and environment on the individual's personality.
- 4) Discuss the principles of various neuro-psychological tests.

**II. Answer any THREE**

**3 x 10 = 30**

- 5) Give a description of the components of attitude system.
- 6) Mention the range of individual differences. How intelligence is understood?
- 7) Give a narration of memory processes.
- 8) Name the different branches of psychology and its scope.

**III. Answer any FIVE**

**5 x 3 = 15**

- 9) Hallucinations and illusions.
- 10) Biology of behavior.
- 11) Study habits.
- 12) Uses of psychology.
- 13) Measurement of personality.
- 14) Perceptual disturbances.
- 15) Human relations.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Explain the assessment of an orthopaedic patient suffering from OA of knee.
- 2) Discuss about the COPD and its management.
- 3) Discuss assessment, management of cerebellar Ataxia.
- 4) Define myocardial infarction. Plan a cardiac rehabilitation programme of phase I & phase II for a case of Myocardial infarction.
- 5) Define chronic bronchitis. Physiotherapy management & long term rehabilitation of chronic bronchitis.
- 6) Discuss different types of Angina and Rehabilitation of the patients with CHD.

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

**5 x 6 = 30**

- 7) Lung function test.
- 8) Rigidity and spasticity.
- 9) EMG biofeedback.
- 10) Management of Erb's Palsy.
- 11) Deep vein thrombosis.
- 12) CTEV.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**I Year Diploma in Medical Records Technology/ II Year Certificate course in**  
**Medical Records Technology**  
**PHYSIOLOGY (O.S)**  
**QP CODE – 1010**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Describe the composition and functions of gastric juice.
- 2) Name the hormone of thyroid gland. Describe the activity of thyroxine.
- 3) Classify WBC's. Describe the functions of WBC's.

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

**10 x 5 = 50**

- 4) Carriage of oxygen.
- 5) Errors of refraction.
- 6) Progesterone.
- 7) Haemoglobin.
- 8) Formation of urine.
- 9) Neuromuscular junction
- 10) Pregnancy test.
- 11) Erythropoiesis.
- 12) Functions of liver.
- 13) Heart sounds.
- 14) Carriage of oxygen.
- 15) Rh system.

**III. WRITE SHORT ANSWERS**

**10 x 2=20**

- 16) Name any two lung function tests.
- 17) Name two hormones of Posterior pituitary.
- 18) Name two types of cell division.
- 19) Write two hazards of mismatched blood transfusion.
- 20) Name two muscles of respiration.
- 21) Write two functions of large intestine.
- 22) Name two methods of contraception.
- 23) Name two methods of anaemia.
- 24) Write the normal values of **a)** Tidal volume **b)** Vital capacity.
- 25) Write the normal values of **a)** GFR **b)** Heart rate.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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) Define and classify sterilization. Write in detail about physical methods of sterilization.
- 2) Draw a neat labeled diagram of microscope. Add a note on use and care of microscope & its types.
- 3) Define and classify culture media. Write in detail on ingredients, preparation, storage and uses of Blood agar.

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

**10 x 5 = 50**

- 4) Acid – fast sterilization.
- 5) Inoculation methods of culture.
- 6) Precipitation reactions.
- 7) Universal precautions.
- 8) Radiation.
- 9) Bacterial cell wall.
- 10) Louis Pasteur.
- 11) IgM.
- 12) Mac Conkey's Agar.
- 13) Gram staining.
- 14) Glutaraldehyde.
- 15) Membrane filters.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Name two sexually transmitted diseases.
- 17) Name any two gram +ve and two gram -ve organisms.
- 18) Name two toxoids.
- 19) Pasteurization.
- 20) Demonstration of bacterial motility.
- 21) Passive immunity.
- 22) Mention two uses of ELISA.
- 23) Name two abdominal immunoglobulins.
- 24) Flaming.
- 25) Bacterial spore.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July-2012**  
**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**

**2 x 10 = 20**

- 1) Describe Arthropod borne disease transmission & its Prevention and control.
- 2) What is natural history of diseases? Discuss different levels of prevention.
- 3) What are carriers? Classify carriers and write about elements in a carrier state.

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

**10 x 5 = 50**

- 4) Life cycle of house fly.
- 5) Pulse polio programme.
- 6) Control of scabies.
- 7) Vector borne transmission.
- 8) Epidemiological triad.
- 9) Cold chain management system.
- 10) Mosquito control measures.
- 11) Different modes of airborne transmission.
- 12) Universal immunization program.
- 13) Difference between Cohort and Case control study.
- 14) DDT.
- 15) Quarantine.

**III. Write short answers**

**10 x 2 =20**

- 16) Isolation.
- 17) Insecticides.
- 18) Crude birth rate.
- 19) Diseases transmitted by culex mosquito.
- 20) Killed vaccines.
- 21) Define reservoir.
- 22) Toxoid vaccines.
- 23) Nutritional status indicators.
- 24) Arithmetic mean and median.
- 25) Storage temperature for OPV and measles vaccines.

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**PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, July-2012**

**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) Name the signs of Inflammation. Explain healing of fracture.
- 2) Define Thrombosis. Describe Etiopathogenesis of thrombus and add a note on fate of the thrombus.

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

**5 x 5 = 25**

- 3) Hyperplasia and Hypertrophy.
- 4) Osteosarcoma.
- 5) Pleural effusion.
- 6) Leiomyomas.
- 7) Vitamin A deficiency.
- 8) Infarction.
- 9) Primary wound healing.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 10) Cardinal signs of inflammation.
- 11) Embolism – types.
- 12) Cold abscess.
- 13) Define Goiter. Write two causes.
- 14) Types of gall stones.

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