

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 thrombosis. Discuss pathogenesis of thrombosis and a note on fate of a thrombus.
- 2) Define necrosis. Discuss the different types of necrosis.
- 3) Enumerate the causes of cell injury. Write briefly about cellular adaptation.
- 4) Describe etiopathogenesis of Rheumatic Heart disease.

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

**12 x 5 =60**

- 5) Primary intention of Healing.
- 6) Amniotic fluid embolism.
- 7) Bone Re-modelling.
- 8) Dystrophic Calcification.
- 9) Endogenous pigment.
- 10) Poliomyelitis.
- 11) Factors affecting wound healing.
- 12) Blood picture and bone marrow findings in Megaloblastic anemia.
- 13) Gynaecomastia.
- 14) Asbestosis.
- 15) Paget's disease of bone.
- 16) Miliary TB.
- 17) Fatty liver.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Explain Synaptophore and its uses.
- 2) Describe the post operative care of cataract surgery patient.
- 3) Types of keratometers and their uses in ophthalmology.

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

**10 x 5 = 50**

- 4) Retinoscope.
- 5) Indications for Sub conjunctival injection.
- 6) Difference between Direct and Indirect Ophthalmoscope.
- 7) Eye banking.
- 8) Trial set and test lenses.
- 9) Pre operative preparation of patient for cataract surgery.
- 10) Procedure of Enucleation of donor eye.
- 11) Fumigation of O.T.
- 12) Neutralization of lenses.
- 13) Acute Dacryocystitis.
- 14) Trachoma.
- 15) Hypertensive retinopathy.

**III. Write short answers**

**10 x 2 = 20**

- 16) Indications for Epilation.
- 17) Classification of Squint.
- 18) Causes of painless loss of vision.
- 19) Indications for Hot fomentation.
- 20) Four suture materials used in Ophthalmic surgery.
- 21) Schirmer test.
- 22) Causes of shallow anterior chamber.
- 23) Astigmatism.
- 24) Importance of Pupil dilation before cataract surgery.
- 25) Hirschberg test.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Describe Glycolysis and give its energetics.
- 2) What is gluconeogenesis? Write the pathway of gluconeogenesis. Mention their key enzymes
- 3) Write detailed role of auto analyser in clinical biochemistry.

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

**10 x 5 =50**

- 4) Van der bergh's test
- 5) Calorimeter.
- 6) Urea cycle.
- 7) Chromatography.
- 8) Iso-enzymes.
- 9) Glucose tolerance test.
- 10) C.S.F analysis
- 11) ELISA
- 12) Glycogenolysis.
- 13) Enzyme markers of cardiac function.
- 14) Neonatal Physiological jaundice.
- 15) Quality control.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Rothera's test.
- 17) Gastric function tests.
- 18) Folin wu method
- 19) Importance of Creatinine phosphokinase.
- 20) Benzidine test.
- 21) Triglycerides.
- 22) Give normal values of a) serum bilirubin b) serum albumin.
- 23) Radio Immunoassay.
- 24) Hemoglobin.
- 25) Clinical importance of Acid phosphatase .

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Classify PEM. Discuss the social problems and ICDS program.
- 2) Describe the epidemiology of Dengue fever. Add a note on its prevention.
- 3) Discuss the Planning cycle.

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

**10 x 5 = 50**

- 4) Mid day school meal .
- 5) Milk Hygiene.
- 6) Minimum Needs program.
- 7) Health is a fundamental right - Explain.
- 8) Describe the levels of prevention with examples.
- 9) Uses of Growth chart.
- 10) Indicators of Air pollution and its prevention.
- 11) Child Abuse.
- 12) Lifestyle disorders.
- 13) High risk pregnancy.
- 14) Cancer registry.
- 15) Ophthalmic assistant.

**III. Write short answers**

**10 x 2 =20**

- 16) Village health guide.
- 17) DPT Vaccine.
- 18) Types of Disaster.
- 19) Condom.
- 20) Barriers of communication.
- 21) Droplet infections.
- 22) Sanitary well.
- 23) "At risk" Children.
- 24) RCH components.
- 25) Iceberg phenomenon of disease.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Write in detail about GRIDS.
- 2) What are the hazards of radiation? Mention its prevention
- 3) Mention the constituents of manual processing developing solution. Discuss their functions

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

**10 x 5 = 50**

- 4) Fogging.
- 5) H & D curve.
- 6) Define Fluorescence. Mention its application in radiography.
- 7) Safe exposure limits
- 8) Radiation protection of pregnant woman.
- 9) Film hangers.
- 10) Merits and Demerits of Dark room entrances.
- 11) High tension cable.
- 12) Capacitors.
- 13) Lead barrier.
- 14) Anode Heel effects.
- 15) Radius bone.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Inverse square law.
- 17) Half life.
- 18) Urograffin.
- 19) Indications for Aortography.
- 20) Sievert.
- 21) PACS.
- 22) Indications for Barium Swallow.
- 23) Rectifier.
- 24) Thomas Alva Edison.
- 25) Resolution.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Write in detail the constituents of Developer solution and their function. How do you replenish the developer?
- 2) Describe the construction and working of an Image Intensifier.
- 3) What is High MA / low KV Radiography? Discuss where such technique is used and the standard views taken to expose the part.

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

**10 x 5 = 50**

- 4) Photoelectric effect.
- 5) 10 day rule.
- 6) Scaphoid view.
- 7) Mammographic cassette.
- 8) HSG.
- 9) Molybdenum.
- 10) Pass box.
- 11) Apicogram.
- 12) Fixer.
- 13) Radiation protection of pregnant woman.
- 14) Atom.
- 15) Storage of X-ray films.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Radioisotopes.
- 17) Lead apron.
- 18) Stochastic effects of radiation .
- 19) Compton effect.
- 20) Curie.
- 21) Urograffin.
- 22) Gelatin.
- 23) Kvp.
- 24) Pressure marks.
- 25) Silver Halide.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**II Year Diploma in Medical Records Technology/ III Year Certificate**  
**course in Medical Records Technology**  
**MEDICAL TERMINOLOGY**  
**QP CODE – 3141**  
**MEDICAL TERMINOLOGY**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER THE FOLLOWING**

**5 x 3 =15**

- 1) Define Fracture. What are the different types of fractures?
- 2) Name five anatomical divisions of abdomen.
- 3) State the chief sources and basic concepts of medical terminology.
- 4) Define commonly used Eponyms. Give two examples.
- 5) Differentiate between prefix and suffix.

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

**5 x 1 = 5**

- 1) Anti.
- 2) Retro.
- 3) Macro.
- 4) Endo.
- 5) Ipsi.

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

**10 x 1 =10**

- |             |              |              |
|-------------|--------------|--------------|
| 1) Pain.    | 2) Blood.    | 3) Smell.    |
| 4) Spider.  | 5) Colours.  | 6) Children. |
| 7) Doctors. | 8) Darkness. | 9) God.      |
| 10) Snakes. |              |              |

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

**10 x 1 = 10**

- |            |            |
|------------|------------|
| 1) Itis.   | 6) Scopy.  |
| 2) Ostomy. | 7) Stasis. |
| 3) Lysis.  | 8) Penia.  |
| 4) Rhexis  | 9) Ectomy. |
| 5) Plasty. | 10) Pexy.  |

**V. MATCH THE FOLLOWING**

**5 x 1 = 5**

- |           |            |
|-----------|------------|
| 1) Albus  | 1) Black.  |
| 2) Ruber  | 2) Red.    |
| 3) Melan  | 3) White.  |
| 4) Iodes  | 4) Grey.   |
| 5) Polios | 5) Violet. |

**PTO...**

**VI. DEFINE THE FOLLOWING****15 x 1 = 15**

- |                  |                  |
|------------------|------------------|
| 1) Geriatrics.   | 9) Enophthalmos. |
| 2) Hypertension. | 10) Insomnia.    |
| 3) Haematuria.   | 11) Tumor.       |
| 4) Pyrexia.      | 12) Dystocia.    |
| 5) Necrosis.     | 13) Morbidity.   |
| 6) Tinnitus.     | 14) Tachycardia. |
| 7) Gestation.    | 15) Autopsy.     |
| 8) Dehydration.  |                  |

**VII. DIFFERENTIATE THE FOLLOWING TERMS****5 x 1 = 5**

- 1) Addiction & Adduction.
- 2) Chronic & Chromic.
- 3) Suppression & Separation.
- 4) Mastitis & Mastoiditis.
- 5) Inhalation & Instillation.

**VIII. GIVE THE MEDICAL TERMS****10 x 1 = 10**

- 1) Enlargement of liver.
- 2) Black stools of newborn.
- 3) Organ of voice.
- 4) Drooping of eyelids.
- 5) Breakdown of RBC's.
- 6) Pus within the uterus.
- 7) Pain in the ear.
- 8) Loss of appetite.
- 9) Inability to sleep.
- 10) Abnormal decrease of WBC

**IX. DEFINE THE FOLLOWING****5 x 1 = 5**

- 1) Haematoma.
- 2) Diarrhoea.
- 3) Antiseptic.
- 4) Hypercalcemia.
- 5) Epidermis.

**X. EXPAND THE FOLLOWING ABBREVIATIONS****10 x 1 = 10**

- |         |        |         |        |         |
|---------|--------|---------|--------|---------|
| 1) CSOM | 2) ALD | 3) HIV  | 4) SSG | 5) RHD  |
| 6) GIST | 7) HSG | 8) PCOD | 9) ECF | 10) BMR |

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Define Pontic. What are the different types of pontic and discuss the principles of pontic design.
- 3) Mention and discuss the principles of arrangement of teeth.

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

**8 x 5 = 40**

- 4) Parts of fixed partial dentures.
- 5) Types of expansion screws.
- 6) Overjet and overbite.
- 7) Define retainers and mention different retainers used in fixed partial prosthodontics.
- 8) Indications of porcelain jacket crown.
- 9) Duplicating materials.
- 10) Adams clasp.
- 11) Tripoding.
- 12) Casting defects.
- 13) Dental ceramics classification and its two uses.

**III. WRITE SHORT ANSWERS**

**5 x 3=15**

- 14) Sand blast.
- 15) Occlusal rest.
- 16) Custom made post.
- 17) Anchorage force.
- 18) Dental stone v/s Dental plaster.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Classify articulators and mention the uses and main values of a articulator.

**II. WRITE SHORT NOTES**

**5 x 5 = 25**

- 2) Relining and Rebasing of Dentures.
- 3) Principles of teeth arrangement.
- 4) Posterior teeth types.
- 5) Immediate Dentures.
- 6) Protrusive balance.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 7) Acrylic teeth.
- 8) Zero degree death.
- 9) Special tray.
- 10) Curve of Spee.
- 11) Bench curing

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 ANUG etiology and its clinical features.
- 2) Describe various principles of oral prophylaxis .
- 3) Define calculus. Write its types, composition, attachments and theories.
- 4) Describe the Etiology, Clinical features, Histopathological changes of Chronic Gingivitis.

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

**7 x 5 =35**

- 5) Premalignant lesions.
- 6) Hydrogen peroxide.
- 7) Ulcers of mouth.
- 8) Supra gingival scaler.
- 9) Angular stomatitis.
- 10) Chronic Periodontitis.
- 11) Dental Plaque.
- 12) Functions of Saliva .

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) What is a Dental Calculus? Describe various theories of calculus formation.

**II. Write short notes**

**5 x 5 =25**

- 2) Dental Hygiene.
- 3) Various stages of plaque formation.
- 4) Functions of periodontal ligaments.
- 5) HIV associated Periodontitis.
- 6) Extrinsic stains.

**III. Write short answers**

**2 x 5 = 10**

- 7) Cemento enamel junction.
- 8) Acute gingival abscess.
- 9) Mobility.
- 10) Materia alba.
- 11) Topical fluoride application.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Discuss the collection of and storage of Blood. Discuss Blood transfusion.
- 2) Describe the steps involved in Total Thyroidectomy.
- 3) Mention the types of Skin grafts and describe how a skin graft is made for a non healing ulcer of the foot.

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

**10 x 5 = 50**

- 4) Above knee amputation.
- 5) Prolene.
- 6) Tracheostomy.
- 7) Tonsillectomy.
- 8) Pulse oximeter.
- 9) Ether.
- 10) Epidural anaesthesia.
- 11) Nasogastric tube.
- 12) Gastroscopy.
- 13) Boyle's apparatus.
- 14) Inter costal Drainage.
- 15) Chemotherapy.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) L.M.A.
- 17) Arterial Blood gas analysis.
- 18) Ambubag.
- 19) Oxygen cylinder
- 20) Hilton's method of drainage.
- 21) Cardiac catheterization.
- 22) Cystoscopy.
- 23) Vasectomy.
- 24) Blood Groups.
- 25) Defibrillator.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 types of Anaesthesia. Write the differences between spinal and epidural anaesthesia.
- 2) Describe in detail various monitors used during anaesthesia and ICU care.
- 3) Describe different types of Intravenous Induction agents. Describe in detail about Thiopentone.

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

**10 x 5 = 50**

- 4) Crystalloids.
- 5) Bupivacaine.
- 6) Isoflurane.
- 7) Anaphylaxis.
- 8) Morphine.
- 9) Day care anaesthesia.
- 10) Entonox.
- 11) Succinyl Choline.
- 12) C.V.P.
- 13) Complications of spinal anaesthesia.
- 14) Nitrous oxide.
- 15) Induced hypotension.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Cautery.
- 17) Endotracheal tube.
- 18) Suction apparatus.
- 19) Epidural catheter.
- 20) Ephedrine.
- 21) Midazolam.
- 22) Cryo anaesthesia.
- 23) Ketamine.
- 24) Anti arrhythmic drugs.
- 25) Oral airway.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) What is Ultra filtration? Discuss its principles and its role in haemodialysis.
- 2) Discuss about monitoring a patient on haemodialysis.
- 3) Discuss the etiology, clinical features and management of acute nephritis.

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

**10 x 5 = 50**

- 4) Renin Angiotensin system.
- 5) Modes of Heparinization.
- 6) Haemoperfusion.
- 7) Components of dialysate supply subsystem.
- 8) Adequacy of dialysis.
- 9) Dialysis in HIV patient.
- 10) Pseudo gout.
- 11) A V fistula.
- 12) Hypotension during dialysis.
- 13) Indications for acute dialysis.
- 14) Protamine sulphate.
- 15) Dialysis Dementia.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Write normal values of concentrations of a) serum sodium b) serum potassium.
- 17) Name two plasma proteins.
- 18) Name two members of Dialysis team.
- 19) Anuria.
- 20) Two complications of Acute tubular necrosis.
- 21) Mention two anticoagulants used in dialysis.
- 22) Dialysate
- 23) What is De-ionisation?.
- 24) Name two poisonings treated by dialysis.
- 25) Name two functions of Proximal convoluted tubules of kidney.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Discuss in detail on dialysis complication and their management.
- 2) What are the different types of Vascular access for Dialysis. Mention their Merits and Demerits
- 3) Describe the structure of a venous catheter. Discuss the sites of insertion, care and complications of venous haemodialysis catheter.

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

**10 x 5 = 50**

- 4) Types of Dialyser membranes.
- 5) Regional citrate anticoagulation.
- 6) What are softeners?
- 7) Reverse osmosis.
- 8) Methods of drawing post dialysis samples for urea analysis.
- 9) Bundle volume.
- 10) Indications for dialysis in CKD patients.
- 11) Uremic Pericarditis.
- 12) Beta 2 microglobulin amyloidosis.
- 13) Graft thrombosis.
- 14) Access Re-Circulation.
- 15) Erythropoietin.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Mention two complications of Heparin.
- 17) Name two causes of AV graft failure.
- 18) Name two vaccines given in renal failure.
- 19) Name two disinfectants used in haemodialysis unit.
- 20) Name two usual positions of blood leak arm.
- 21) Name two drugs used in anaphylactic reaction.
- 22) Name two methods of peritoneal dialysis.
- 23) Mention two causes of chronic kidney disease.
- 24) Name two causes for ARF.
- 25) Two drugs used for catheter block.

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**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 current and potential difference. State and explain Ohm's law. Write the limitations of Ohm's law.
- 2) Define Energy. State Law of Conservation of energy and explain with respect to a freely falling body.

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

**5 x 5 = 25**

- 3) Spectrometer.
- 4) Semi - conductors.
- 5) Define wave. Mention the difference between longitudinal and transverse wave.
- 6) Transformers.
- 7) Orbital Velocity and Escape Velocity.
- 8) Density of substance.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 9) Impedance.
- 10) Define focal length.
- 11) Boyle's law.
- 12) Viscosity.
- 13) EMF of a cell.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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 of Heart.
- 2) Name the Salivary glands and describe Parotid gland in detail.
- 3) Classify Joints with examples and describe Synovial joint in detail.

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

**10 x 5 = 50**

- 4) Elastic cartilage.
- 5) Gluteal muscles.
- 6) Urinary Bladder.
- 7) Testis.
- 8) Air sinuses.
- 9) Ovary.
- 10) Diaphragm.
- 11) Sacrum.
- 12) Radius.
- 13) Pleura.
- 14) Spleen.
- 15) Femoral artery.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Name 4 bones of Skull.
- 17) Name 4 Cell organelles.
- 18) Clavicle
- 19) Name 4 bones of Upper limb.
- 20) Name the parts of vertebra.
- 21) Eyeball.
- 22) Transitional epithelium.
- 23) Sex chromosome.
- 24) Connective tissue.
- 25) Cell division.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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) Describe in detail pre participatory evaluation.
- 2) Describe the role of physiotherapy in management of Parkinsonism.
- 3) Write on principles of immediate first aid and medical treatment.
- 4) Enumerate various electrical modality used in physiotherapy and there indications.
- 5) List down the common sports injuries as per anatomical distribution. Explain in detail any of the two common injuries.

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

**5 x 5 = 25**

- 6) Runners' knee.
- 7) Compartment syndrome.
- 8) Golfer's elbow
- 9) Shin splint.
- 10) Electromyography
- 11) Biofeedback.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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) Hypermetropia – definition, types, clinical features and management.
- 2) Describe the differential diagnosis and management of red eye.
- 3) Physiology of vision and visual pathway.

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

**10 x 5 = 50**

- 4) Colour vision.
- 5) A-scan biometry.
- 6) Bitot's spots
- 7) Astigmatism and its correction
- 8) Ishihara chart
- 9) Astigmatic fan
- 10) Aqueous humor
- 11) Contact lenses and its indications
- 12) Orbital bones.
- 13) Diplopia
- 14) Mydriatics.
- 15) Drainage of Lacrimal fluid.

**III. Write short answers**

**10 x 2 = 20**

- 16) Layers of retina.
- 17) SRK formula.
- 18) Placidos disc.
- 19) Ocular changes in diabetics.
- 20) Gas permeable contact lens.
- 21) Types of Bifocal lenses.
- 22) Buphthalmos.
- 23) Anti fungal agents.
- 24) Visual acuity tests in adults.
- 25) Rods and cones.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**I Year Diploma in Medical Laboratory Technology /II Year Certificate course**

**Time: 3 hrs**

**Max. Marks: 90**

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

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

**I. Long Essay – Answer any ONE** **1 x 10=10**

- 1) Name the parts of female reproductive system and discuss uterus in detail.
- 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) Trachea.                      | 7) Histology of Lymph node. |
| 4) Cerebrum.                     | 8) Parotid gland.           |
| 5) Lateral wall of nasal cavity. | 9) Synovial joint.          |
| 6) Histology of testis.          |                             |

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

- 10) Name two muscles of thigh.
- 11) Name the parts of inner Ear.
- 12) Name four branches of abdominal aorta.
- 13) List the structures passing through hilum of the lung.
- 14) Transitional Epithelium.

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

**I. Long Essay – Answer any ONE** **1 x 10=10**

- 1) Draw a neat labeled diagram of Nephron. Describe the formation of urine. Add a note on Glomerular apparatus.
- 2) Define Blood pressure. Describe the mechanism of regulation of blood pressure.

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

- |                                                             |                        |
|-------------------------------------------------------------|------------------------|
| 3) Classify anemia. Explain pernicious anemia               | 7) Growth hormone.     |
| 4) Define cyanosis. Explain two causes for it?              | 8) Pregnancy tests.    |
| 5) Define cardiac output and mention factors regulating it. | 9) Cerebrospinal fluid |
| 6) Functions of cerebrum.                                   |                        |

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

- 10) Write the normal values of a) Blood pressure b) Heart rate.
- 11) Name any two anticoagulants.
- 12) Name any two sites of Erythropoiesis in adults.
- 13) Name any two methods of contraception in females.
- 14) Name any two renal function tests.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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 the production of X rays with a neat diagram. Write properties of X ray.
- 2) Define Fleming's right hand rule. Explain with a neat labeled diagram A.C generator. Add a note on its use.

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

**5 x 5 = 25**

- 3) Semiconductors.
- 4) Coloumb's inverse square law.
- 5) Laws of conservation of energy.
- 6) Heel effect.
- 7) Capacitor.
- 8) Circuit breakers.
- 9) Collimeters.

**III. WRITE SHORT ANSWERS**

**5 x 2 =10**

- 10) Insulators.
- 11) Isotopes.
- 12) Anode angle.
- 13) Half life.
- 14) Mention type of rectifiers.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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) What are the duties and responsibilities of a medical record technician.
- 2) Discuss in detail organisation and management of medical records department.

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

**5 x 5 = 25**

- 3) Alpha index cards.
- 4) Terminal digit filling system.
- 5) Qualitative and Quantitative analysis.
- 6) Functions of central admitting office.
- 7) Use of medical records for post graduate students.
- 8) Write the principles of form design.
- 9) State the various types of indexes and why it is maintained in MRD.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Live birth.
- 11) Surgeon index card.
- 12) Casualty.
- 13) Deficiency check.
- 14) Misfiling.

**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) Bailable and non bailable offences.
- 2) Explain four different types of search warrants.

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

**5 x 5 = 25**

- 3) Criminal liability.
- 4) Mysore registration of birth and death rules 1970.
- 5) Malpractice suits.
- 6) Non cognizable offence.
- 7) Indian evidence act 1872.
- 8) Oral and documentary evidence.
- 9) Movable property.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Differentiate between summon and warrant.
- 11) Cross examination.
- 12) Judicial notice.
- 13) Arrest.
- 14) Relevancy of facts.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**I Year Diploma in Medical Records Technology /II Year Certificate course**  
**MEDICAL RECORD SCIENCE (MRS)**  
**QP CODE – 2141**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 10 = 20**

- 1) Explain different types of search warrant.
- 2) State briefly the acts that are exempted from criminal liability under I.P.C.
- 3) Write in detail about the duties and responsibilities of Medical Records Officer.
- 4) Role of medical record in assisting hospital administration.

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

**10 x 5 = 50**

- 5) Write about the benefits of getting printed medical record forms.
- 6) Rules for birth registration.
- 7) Criminal liability.
- 8) Accident Register.
- 9) What is Estoppels and Promissory Estoppels.
- 10) Quantitative and Qualitative analysis.
- 11) Which are the commonly found deficiencies in case sheets and procedures to complete it?
- 12) Movable and non - movable property.
- 13) Workmen Compensation act.
- 14) Proclamation of an Absconder and attachment of property.
- 15) What are the rights of an arrested person?
- 16) Explain the effects of Non production of documents.
- 17) Cognizable and non - cognizable offence.
- 18) What are the benefits of getting printed medical record forms?

**III. WRITE SHORT ANSWERS**

**10 x 2=20**

- 19) Tracer card.
- 20) IP Register.
- 21) Disease index card.
- 22) Discharge Analysis.
- 23) Plaintiff
- 24) Misfiling.
- 25) Brought dead.
- 26) Decree Holder.
- 27) F.I.R
- 28) Stock register.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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) Write about cohesion , adhesion and their role in complete denture.
- 2) What is stress and strain? Explain different types of stress and strain?
- 3) Write about principles of electro technology applied to denture work.
- 4) Classify denture base material. Describe the compression moulding technique.

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

**7x 5 = 35**

- 5) Young's modulus.
- 6) Thermostat.
- 7) Cantilever.
- 8) Soldering.
- 9) Gelation.
- 10) Capillarity.
- 11) Impression plaster.
- 12) Syneresis.
- 13) Solutes and collides.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**I Year Diploma/II Certificate Course in DENTAL MATERIAL AND**  
**METALLURGY (N.S)**  
**QP CODE – 2171**

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**1 x 10 = 10**

- 1) What is an alloy? Mention the various alloys used in Prosthodontics. Write in brief about base metal alloys.
- 2) Classify Dental cements. Write the composition, setting reaction and uses of glass ionomer cement.

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

**5 x 5 = 25**

- 3) Annealing and tempering.
- 4) Mucostatic impression materials.
- 5) Types of stainless steel.
- 6) Types of waxes.
- 7) Ductility and malleability.
- 8) Investment materials.
- 9) Discuss phosphate bonded investment materials.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Mention different separating media.
- 11) Cobalt chromium alloys.
- 12) Green strength
- 13) Soldering
- 14) Electroplating

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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.
- 2) Describe the soft palate in detail ?
- 3) Describe the tongue.

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

**5 x 5 =25**

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

**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) Deglutition and phonation.
- 3) Haemoglobin.
- 4) Blood groups.
- 5) Growth hormone.
- 6) Active transport.
- 7) Functions of RBC.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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) List the muscles of Mastication and explain the Masseter muscle.
- 2) Describe Temporo - mandibular joint.

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

**2x 5 =10**

- 3) Middle ear.
- 4) Facial nerve.
- 5) Lymph node.

**III. Write short answers**

**3 x2 =6**

- 6) Name the layers in the wall of a blood vessel.
- 7) Name two histological differences between skeletal and cardiac muscle.
- 8) Name any 4 bones forming facial skeleton.

**Section – B, GENERAL PHYSIOLOGY (write in separate answer book)**  
**QP CODE – 2182**

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

**4 x 4 =16**

- 1) Deglutition.
- 2) Composition and functions of saliva.
- 3) Functions of thyroid hormone.
- 4) Hypoxia.
- 5) Active transport.
- 6) Short term regulation of Blood pressure.

**II. Write short answers**

**2 x2 = 4**

- 7) Anti coagulants.
- 8) Ribosomes.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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) What is Boyle's apparatus? What are the anaesthesia equipments used during surgical procedures?
- 2) Describe various types of cautery and precautions in using cautery.
- 3) Discuss in detail why operation theatre has to be fumigated? When do you allow surgeries after fumigation.

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

**10 x 5 = 50**

- 4) Tissue repair materials .
- 5) Defibrillator.
- 6) Sources of contamination in O.T.
- 7) Disposal of O.T waste.
- 8) Flash sterilization.
- 9) Pulse Oximeter.
- 10) Laryngoscope.
- 11) Microsurgery.
- 12) C.P.R.
- 13) Check list of a patient before surgery.
- 14) Ambulatory surgery.
- 15) Radiation hazards and safe guards.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Lithotomy position.
- 17) Name two catheters to drain urine.
- 18) Blood transfusion.
- 19) Incisions for appendicectomy.
- 20) Cystoscopy.
- 21) Name two Disinfectants.
- 22) Linen packing.
- 23) Nephrectomy.
- 24) Endotracheal tube.
- 25) Ventilators.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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) Enumerate the different types of suture materials. Write the concepts in laparoscopic surgery.
- 2) Discuss blunt trauma abdomen with its management.
- 3) What is Ambulatory surgical care? Describe in brief the pre operative, operative and post operative ambulatory nursing care.

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

**10 x 5 = 50**

- 4) Vacuum suction.
- 5) Hysterectomy.
- 6) Hydrocele.
- 7) Skin grafting.
- 8) Incision and drainage.
- 9) Mesh repair in hernia.
- 10) Venesection.
- 11) Local anesthetic agents.
- 12) Thoracic incisions and closures.
- 13) Harmonic scalpel.
- 14) Ultrasonography.
- 15) Wound infection.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) M.T.P.
- 17) Circumcision.
- 18) Absorbable suture materials.
- 19) Colonoscopy.
- 20) Abdominal drain.
- 21) Ganglion.
- 22) Staples in surgery.
- 23) Episiotomy.
- 24) Ryle's tube.
- 25) Three techniques of draping.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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) Define anticoagulants. Name the different types of anticoagulants used in dialysis.  
Differentiate between systemic and regional heparinisation.
- 2) What is reverse osmosis? Describe its role in Dialysis.
- 3) Describe the normal anatomy of kidney. Add a note on structure of nephron.

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

**10 x 5 = 50**

- 4) Dialysis team.
- 5) Causes and clinical features of acute renal failure.
- 6) Proportioning system.
- 7) Artificial kidney.
- 8) Basis of Ultrafiltration.
- 9) High flux dialyser.
- 10) Complications of peritoneal Dialysis.
- 11) Proteinuria.
- 12) AV fistula.
- 13) Types of access for circulation in Dialysis.
- 14) Heparin.
- 15) Dialysis dysequilibrium.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Name two methods of water purification.
- 17) Name two serum electrolytes.
- 18) Predisposing illness for chronic renal failure.
- 19) Name psychiatric complications of Haemodialysis.
- 20) Name two methods used in reuse of hollow fiber kidney.
- 21) Femoral catheter.
- 22) Waste disposal in a haemodialysis unit.
- 23) Name two pathological constituents of urine.
- 24) Name two common complication of dialysis.
- 25) Bicarbonate.

\*\*\*\*\*

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July -2013**  
**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 Cephalosporins. Write the pharmacology of Cefotaxim.
- 2) Classification of Anti Tubercular drugs. Write in detail about Rifampicin.

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

**5 x 5 = 25**

- 3) Signs and symptoms of organophosphorus poisoning and its management.
- 4) Morphine.
- 5) Advantages and disadvantages of oral route of drug administration.
- 6) Co trimaxozole: Mechanisms of action, uses and adverse effects.
- 7) Adverse effects of Glucocorticoids.
- 8) Insulin preparations.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Name two Intravenous inducing agents.
- 10) Write two Live attenuated vaccines.
- 11) Name the antidote for poisoning due to a) Iron b) Paracetamol.
- 12) Two indications for plasmapheresis.
- 13) Name two Anti hypertensive drugs.

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

**QP CODE - 2152**

**I. ANSWER ANY ONE**

**1 x 10 = 10**

- 1) Explain the anatomy of Artificial kidney and principles of Haemodialysis.
- 2) Water treatment in Hemodialysis.

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

**5 x 5 = 25**

- 3) Define Osmosis. Mention its use in Dialysis.
- 4) Lab investigations in Hemodialysis patients.
- 5) What do you understand by Hardness of water? How is it removed in water treatment plant? What will happen if hardness is not removed?
- 6) Pseudo-hypertension.
- 7) SLED.
- 8) Heparin in Dialysis.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Erythropoietin.
- 10) Citrate anticoagulation.
- 11) Dry weight.
- 12) Name two indications for heparin free dialysis.
- 13) A.V fistula.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**II DPT – PHARMACOLOGY**  
**QP CODE – 3192**

**Time: 3 hrs**

**Max. Marks: 90**

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

**4 x 15=60**

- 1) Classify Anti cholinergic drugs. Discuss the indications, contraindications and adverse effects of Atropine.
- 2) Classify Anti anginal drugs. Write the mechanism of action, use and adverse effects of nitrates.
- 3) Classify NSAIDS. Classify Antiepileptic drugs. Discuss the mechanism of action, uses and adverse effects of Phenytoin.
- 4) Classify Anti tubercular drugs. Write the mechanism of action, adverse effects of Rifampicin
- 5) Classify General anaesthetics. Write merits and demerits of Nitrous oxide.

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

**4 x 5= 20**

- 6) Pre anaesthetic medication.
- 7) ACE inhibitors.
- 8) Insulin preparation.
- 9) D - tubocurarine.
- 10) Salbutamol.

**III. Write short answers**

**5 x 2 =10**

- 11) Sublingual route.
- 12) Name two fat soluble vitamins.
- 13) Name four anti viral drugs.
- 14) Name two Diuretics.
- 15) Name two drugs in Peptic ulcer.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) NPCB and its functions.
- 2) Staff pattern in Mobile ophthalmic unit.
- 3) Describe the methods of motivation for eye donation.

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

**10 x 5 = 50**

- 4) Vision 2020 – The right to sight.
- 5) Transportation of donor eyeball.
- 6) Survey methodology.
- 7) RGP v/s Soft lenses.
- 8) Vitamin A prophylaxis.
- 9) Enucleation consent form.
- 10) Vocational training of a blind person.
- 11) Management of Retrobulbar Haemorrhage.
- 12) Cataract surgical record.
- 13) Ocular emergencies.
- 14) Role of PMOA.
- 15) Preparation of sterile ocular bandage.

**III. Write short answers**

**10 x 2 = 20**

- 16) Importance of IPD measurement.
- 17) Uses of Spherical lenses.
- 18) Causes for faint fundal glow during retinoscopy.
- 19) Two instruments used to measure corneal curvature.
- 20) Materials used for spectacle frames.
- 21) Maintenance of tonometer.
- 22) Name two viral eye diseases.
- 23) 4 materials for manufacture of IOL.
- 24) Serological test for eye donation.
- 25) common errors of refraction.

# **PARAMEDICAL BOARD, BANGALORE**

## **Supplementary Examination, July - 2013**

**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) Describe various methods of hemoglobin estimation. Write in detail on fetal hemoglobin estimation.
- 2) What are the various blood components? Write about the components of procedure of component preparation.
- 3) Discuss about preparation of different types of haematoxylin and Eosin staining techniques.

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

**10 x 5 =50**

- 4) CSF analysis.
- 5) Errors in section cutting.
- 6) Osmotic fragility test.
- 7) Clot retraction test.
- 8) Semen specimen processing.
- 9) Decalcification.
- 10) Investigate a case of transfusion reaction.
- 11) Pre analytical errors that can occur in a Hematology lab.
- 12) Frozen section.
- 13) Demonstration of Barr bodies.
- 14) Audit in Histopathology.
- 15) Sputum examination.

**III. Write short answers**

**10 x 2 = 20**

- 16) Serial section in Microtome.
- 17) INR.
- 18) Bombay Blood group.
- 19) Write four advantages of FNAC.
- 20) Use of gel card in blood bank.
- 21) Mounting agents.
- 22) Blood cell counters.
- 23) Uses of Hot air oven.
- 24) How do you prepare Leishman's stain.
- 25) Tissue floating bath.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Define Health Insurance. Name the different types of Health insurance schemes available for workers in India. Describe any one of them.
- 2) Briefly describe the national vector borne disease control program.
- 3) Classify Contraceptives. Write in detail on 2nd generation Intra-uterine contraceptive devices.

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

**10 x 5 = 50**

- 4) Domiciliary care.
- 5) Exclusive breast feeding.
- 6) Juvenile Delinquency.
- 7) Components of CSSM program.
- 8) Risk factors in Diabetes Mellitus.
- 9) Under five clinic.
- 10) Record Linkage.
- 11) MTP act.
- 12) Community Participation.
- 13) Urban malaria.
- 14) International Red cross society.
- 15) No scalpel vasectomy.

**III. Write short answer**

**10 x 2 = 20**

- 16) UNICEF.
- 17) Bottle feeding.
- 18) Name four milk borne diseases.
- 19) Breast feeding.
- 20) Eligible couple.
- 21) Five cleans.
- 22) Millennium Development Goals.
- 23) Mass media of communication
- 24) Net reproduction rate.
- 25) Food fortification.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 gamma camera? draw a diagram and discuss the principles of gamma camera.
- 2) Discuss different types of Cholangiography?
- 3) What is Brachytherapy ? Discuss how do you prepare patient for the same.

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

**10 x 5 = 50**

- 4) Dark room artifacts.
- 5) Technetium 99.
- 6) MLC X rays.
- 7) Vermiform appendix.
- 8) Micturating cystourethrography.
- 9) Phantomography
- 10) Gieger Muller counter.
- 11) Skill source distance.
- 12) Name the carpal bones in order.
- 13) Therapy planning.
- 14) Positioning in PA view of hand.
- 15) Uses of Bucky

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Fog removal
- 17) Towne's view.
- 18) Properties of Ultraviolet rays.
- 19) Indications of HSG.
- 20) Tray cleaner formula
- 21) Latent image.
- 22) Xeroradiography.
- 23) Pass boxes
- 24) Two advantages of High Kv technique.
- 25) Cassette.

# **PARAMEDICAL BOARD, BANGALORE**

## **Supplementary Examination, July - 2013**

**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) Write in detail management of breast cancer.
- 2) Draw a neat diagram of conventional X ray machine and Label the parts with brief description.
- 3) What are medico legal records?

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

**10 x 5 = 50**

- 4) Mention the time schedule maintenance of MLC.
- 5) Discuss the technique of IVP in detail.
- 6) Small bowel enema.
- 7) Fistulogram.
- 8) Frog leg view.
- 9) Invertogram.
- 10) Moving Grid
- 11) Cine angiography.
- 12) Importance of consent by patients or attenders.
- 13) Doppler.
- 14) Apicogram.
- 15) T tube Cholangiogram.

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

**10 x 2 = 20**

- 16) Dry Bench.
- 17) Cervical spine.
- 18) T2 weighted images.
- 19) Expand BSA.
- 20) Half value layer.
- 21) C arm.
- 22) Cobalt unit.
- 23) Optic foramen view.
- 24) Views in mammography.
- 25) Ventricles of Brain.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Discuss the advantages and drawbacks in the functioning of Medical College Hospitals.
- 2) "Medical care – an Industry" Explain with suitable examples. Add a note on administrative skills
- 3) What is Bio-medical waste (BMW)? Discuss in detail the steps involved in segregation of BMW. What steps can be taken to improve present scenario in Bio-medical waste management in hospitals of India?

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

**10 x 5 = 50**

- 4) Medical ethics.
- 5) Team work.
- 6) Medical Audit .
- 7) History of hospitals in India.
- 8) Enumerate various hospital committees.
- 9) Control of medical profession.
- 10) Mudaliar committee.
- 11) Delegation of powers.
- 12) House Keeping Department.
- 13) Staffing pattern of Radiology department.
- 14) Two bin system.
- 15) Health insurance.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) Medical social worker.
- 17) Indian Red Cross.
- 18) Ambulance services.
- 19) Hospital Sociology.
- 20) Problems faced in a Rural Hospital.
- 21) Purchase committee.
- 22) Functions of Pathology Department.
- 23) Disaster cycle.
- 24) Resources.
- 25) Evaluation.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination – July 2013**  
**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) Mention the composition and write the properties of impression compound.
- 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) Uses of Gold in Dentistry.
- 6) Heat cured V/S cold cured resins.
- 7) Composition and uses of glass ionomer cement.
- 8) Composition and uses of Zinc oxide and Eugenol cement.
- 9) 18-8 stainless steel.
- 10) Dental inlay waxes .
- 11) Define record base. Mention its function and write the requirements of ideal record base.
- 12) Mention Gypsum bonded investment.

**III. WRITE SHORT ANSWERS**

**5 x 3=15**

- 13) Slurry water.
- 14) Tarnish and Corrosion.
- 15) Cold mould seal.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**II Year Diploma in Dental Mechanics/ III Year**  
**Certificate course in Dental Mechanics**  
**PARTIAL DENTURES, ORTHODONTIA, MAXILLOFACIAL PROSTHESIS**  
**(N.S)**  
**QP CODE - 3172**

**Time: 1 1/2 hrs**

**Max. Marks: 45**

**I. LONG ESSAY**

**1 x 10 = 10**

- 1) Define surveying. Write in detail about the parts of a surveyor, principles, uses of surveying & importance of dental surveyor.

**II. WRITE SHORT NOTES**

**5 x 5 = 25**

- 2) Casting defects.
- 3) Blackout and mention the various types of Blackout.
- 4) Principles of wire bending.
- 5) Kennedy's Classification.
- 6) Maxillofacial prosthesis.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 7) C - clasp.
- 8) Centrifugal casting machine
- 9) Ovate pontic.
- 10) Mention names of dye materials used.
- 11) Classify dental ceramics.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Plaque index.
- 3) Prevention of periodontal disease.
- 4) Water fluoridation.
- 5) Dental camps.
- 6) Simplified oral hygiene index.

**III. Write short answers**

**5 x 2 = 10**

- 7) Powered tooth brush.
- 8) Inter dental cleaning aids.
- 9) Sulcular brushing technique.
- 10) Gingival massage.
- 11) Tooth paste for sensitive teeth.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Classify suture materials and discuss their uses.
- 2) What is ambulatory surgery? Discuss the various surgical procedures done in ambulatory surgery.
- 3) Pre operative preparation and assessment done for Haemorrhoidectomy.

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

**10 x 5 = 50**

- 4) Checklist of the patient.
- 5) Skin staplers.
- 6) Antiseptic agents.
- 7) Secondary suturing.
- 8) Monitoring the patient under spinal anaesthesia.
- 9) Colonoscopy.
- 10) Skin preparation for abdominal surgery.
- 11) Mechanism of wound healing.
- 12) Uses of microscopes in surgery.
- 13) Absorbable suture materials.
- 14) Collection of specimens for biopsy.
- 15) Lasers in surgery.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Tourniquet.
- 17) Lithotomy position.
- 18) Laryngoscope.
- 19) Complications of Gastro jejunostomy.
- 20) Endo tracheal tubes
- 21) Cautery.
- 22) Plethysmography
- 23) Ryle's tube.
- 24) CPR.
- 25) Burr holes.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**II Year Diploma in OT Technology/ III Year Certificate course in**  
**OT Technology**  
**OPERATIVE PROCEDURE (N.S)**  
**QP CODE - 3132**

**Time: 3 hrs**

**Max. Marks: 90**

**I. ANSWER ANY TWO**

**2 x 10 = 20**

- 1) Discuss emergency LSCS.
- 2) Discuss neck surgery. Discuss in detail about Thyroglossal cyst
- 3) Discuss the pre operative preparation for Major abdominal surgery.

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

**10 x 5 = 50**

- 4) Ventral Hernia.
- 5) Liver abscess drainage.
- 6) Orchidectomy.
- 7) Intercostal drainage.
- 8) Patients positioning in surgery.
- 9) Tracheostomy.
- 10) Hemorrhoids.
- 11) Splenectomy.
- 12) Lymph node excision.
- 13) Operations for Varicocele.
- 14) AMBU bag.
- 15) Various types of Mesh in surgery.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Hand washing technique.
- 17) Keloid.
- 18) Lipoma.
- 19) Phimosis.
- 20) Brachytherapy.
- 21) Sitz bath.
- 22) Mastoidectomy.
- 23) Intestinal staplers.
- 24) Xylocaine.
- 25) Fistula

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 indications and precautions for acute dialysis in an ICU. Add a note on monitoring of the procedure.
- 2) Discuss the management of Hypertension in patient undergoing Haemodialysis.
- 3) Describe various psychiatry problems associated with long term dialysis.

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

**10 x 5 = 50**

- 4) AV fistula.
- 5) Hyperkalemia and its management.
- 6) CAPD.
- 7) ARF.
- 8) Indicators for stopping Dialysis.
- 9) Anti coagulants.
- 10) Bicarbonate Dialysate.
- 11) Dietary changes in patients of CRF.
- 12) Non surgical renal replacement therapy.
- 13) Mismatched Blood transfusion.
- 14) Immunization schedule in patients of Haemodialysis.
- 15) Rehabilitation.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Microalbuminuria.
- 17) Peritonitis.
- 18) Write normal values of Serum a) Albumin b) Bilirubin.
- 19) Infections in Dialysis.
- 20) Dialysis Dysequilibrium.
- 21) Write normal values of serum a) Calcium b) Magnesium.
- 22) Name two Immunosuppressant drugs.
- 23) What is Protein leakage?
- 24) Name two replacements fluid in Plasmapheresis.
- 25) Merits and demerits of femoral catheterisation.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Discuss slow continuous therapies.
- 2) Discuss in detail "infections in dialysis patients", and methods of control of infections in HD units.
- 3) Describe the anatomy of peritoneal membrane. What do you mean by Exchange peritoneal dialysis?

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

**10 x 5 = 50**

- 4) AV fistula care.
- 5) Isolated Ultrafiltration.
- 6) KT/V.
- 7) Gastrointestinal complications of CKD.
- 8) Anticoagulation in CRRT.
- 9) Dry weight.
- 10) Uremic Encephalopathy.
- 11) Recirculation in dialysis.
- 12) Cyclosporine.
- 13) Waste disposal in dialysis unit.
- 14) Peritonitis in PD patients.
- 15) Diet in ESRD.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Two antibiotics used in peritonitis.
- 17) Name two PD solutions.
- 18) Name two drugs which are dialyzable.
- 19) Name two foods rich in Phosphorous.
- 20) Normal values of a) FBS b) BUN.
- 21) Normal values of a) Bleeding time b) Clotting time.
- 22) Complications of renal transplantation.
- 23) Renal replacement therapy.
- 24) Name two drugs used in transplant patients.
- 25) Name two ESA.

**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Describe the preparation of Chlorine by Nelson's process. Mention its uses.
- 2) How is Hydrogen peroxide prepared in laboratory. Mention its uses.

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

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

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

- 3) Lowry – Bronsted's concept of acids and bases.
- 4) Structure of atom.
- 5) Properties and uses of Sodium carbonate.
- 6) Tyndall effect and Brownian movement.
- 7) Arrhenius theory of electrolyte disassociation.
- 8) Lyophilic and Lyophobic colloids
- 9) Importance of Buffer solutions.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Henderson's Equation.
- 11) Wurtz reaction.
- 12) What is an indicator? Give an example.
- 13) Functional properties of transport agents.
- 14) Halogens

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 hormones secreted by pancreas. Add a note on Insulin.
- 2) What is Haemostasis? Discuss the various processes involved in normal haemostasis.
- 3) Define Hypoxia. Describe the different types of Hypoxia.
- 4) Name different Blood groups. Add a note on Rh system.

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

**5x 5 =25**

- |                                          |                                       |
|------------------------------------------|---------------------------------------|
| 5) Neural regulation of respiration.     | 9) Composition and functions of bile. |
| 6) Contents and functions of Middle ear. | 10) Myasthenia Gravis.                |
| 7) Functions of Estrogen.                |                                       |
| 8) Saltatory conduction.                 |                                       |

**III. Write short answers**

**5 x 2=10**

- 11) Name any two G.I hormones.
- 12) Define a) Vital Capacity b) Stroke Volume.
- 13) Functions of Spleen.
- 14) Metabolic Acidosis.
- 15) Name any two functions of Skin.

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

**QP CODE - 2193**

**I. Answer any one**

**1 x 10=10**

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

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

**1 x 5 = 5**

- 3) Sources and function of calcium.
- 4) B.M.R.

**III. Write short answers**

**5 x 2=10**

- 5) Beri Beri.
- 6) Co - enzyme.
- 7) Renal function tests.
- 8) P.E.M.
- 9) Benedict's test.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Explain the rules, techniques and benefits of practicing Meditation.
- 3) Describe the asanas used for control of Hypertension.
- 4) Explain the procedure of Jalanethi and benefits.
- 5) Name four principles of Yoga and Explain in brief the importance of Surya Namaskara.

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

**5 x 5 = 25**

- 6) Mental retardation.
- 7) Matured Personality.
- 8) Dhyaana and Samaadhi.
- 9) Yogic relaxation.
- 10) Padmasana.
- 11) Bandhas and Mudhras.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**

**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 the symptoms, signs and treatment of Chronic Dacryocystitis.
- 2) Chemical injury to eye, first aid and treatment.
- 3) Discuss Ocular trauma, its prevention, first aid and treatment.

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

**10 x 5 = 50**

- 4) Trachoma.
- 5) Hordeolum Internum.
- 6) Contact lens.
- 7) Schiottz Tonometer.
- 8) Viral Keratitis.
- 9) Gonioscopy.
- 10) Xerosis.
- 11) Stages of Diabetic retinopathy.
- 12) Snellen's chart.
- 13) Mention Extra ocular muscles with nerve supply.
- 14) Lacrimal sac syringing: Indications and procedure.
- 15) Presbyopia and its management.

**III. Write short answers**

**10 x 2 = 20**

- 16) IOL power calculation.
- 17) Timolol eye drops.
- 18) Signs of Aphakia.
- 19) Day Blindness.
- 20) Two causes of painful blind eye.
- 21) Contraindications for Enucleation.
- 22) Mention the organism causing pseudo membranous conjunctivitis.
- 23) Maddox wing.
- 24) Two causes of Hyphaema.
- 25) Cause for shallow anterior chamber.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 Enzyme. Describe factors affecting enzyme activity.
- 2) What are trace elements? Mention their biological functioning in the body.
- 3) Define lipids. Classify lipids with suitable examples.

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

**10 x 5 = 50**

- 4) Spectrophotometer.
- 5) Essential amino acids.
- 6) Indicators.
- 7) Ultracentrifuge.
- 8) Hot air oven.
- 9) Isoenzymes.
- 10) Molar solution and Buffer solution.
- 11) Structure of an atom.
- 12) Aromatic and Aliphatic compounds with examples.
- 13) Beer Lambert's law.
- 14) Muta rotation.
- 15) Hetero polysaccharides.

**III. Write short answers**

**10 x 2 = 20**

- 16) Benedict's test.
- 17) Heparin.
- 18) Iso-electric Ph.
- 19) Salting out.
- 20) Two uses of Chromatography.
- 21) Graduated pipette.
- 22) Functions of Phosphorus.
- 23) Vaccutainers.
- 24) Xanthoproteic test
- 25) Seliwanoff's test .

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**

**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) Discuss the role of cultural factors in health and disease.
- 2) Enumerate different types of families. Describe the merits and demerits of each of them.
- 3) Discuss Community nutrition programme.

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

**10 x 5 = 50**

- 4) Breakpoint chlorination.
- 5) Acculturation.
- 6) Meat Hygiene.
- 7) DOTS.
- 8) Incidence and prevalence.
- 9) Iceberg phenomenon of disease.
- 10) Integrated vector control.
- 11) Anthropology.
- 12) Types of carrier.
- 13) PQLI.
- 14) What do you mean by Behavioural science? Write its importance in health and disease
- 15) Fluorine is often called a two edged sword. Explain.

**III. Write short answers**

**10 x 2 =20**

- 16) Global warming.
- 17) Below poverty line.
- 18) Broken Family.
- 19) Alcohol abuse.
- 20) Treatment of Pediculosis.
- 21) Primordial prevention.
- 22) Holistic concept of health.
- 23) Bias.
- 24) Positive health.
- 25) Give two examples for genetic diseases.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**I Year Diploma in Medical X- Ray Technology/ II Year Certificate course in**  
**Medical X- Ray Technology**  
**ANATOMY**  
**QP CODE – 2122**

**Time: 1 ½ hrs**

**Max. Marks: 45**

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

**2 x 10 = 20**

- 1) Name the parts of Male reproductive system. Discuss Testis in detail.
- 2) Name the parts of Gastro intestinal system and explain the gross features of stomach.
- 3) List the names of Cranial nerves and give an account on any of them.

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

**5 x 3 = 15**

- 4) Pancreas.
- 5) Deltoid muscle.
- 6) Dorsal venous arch of hand.
- 7) Microscopic structure of spleen.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 8) Name four cartilages of larynx.
- 9) Name the paranasal air sinuses.
- 10) Achilles tendon.
- 11) Name the Salivary Glands.
- 12) Name four foramina of Skull.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) List the endocrine glands. Describe the pituitary glands.
- 2) Name the coverings of heart and describe the chambers of heart.

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

**5 x 5 = 25**

- |                     |                     |
|---------------------|---------------------|
| 3) Uterus.          | 7) Arch of aorta.   |
| 4) Thyroid gland.   | 8) Spermatogenesis. |
| 5) Fallopian tubes. | 9) Carpal bones.    |
| 6) Mitosis.         |                     |

**II. WRITE SHORT ANSWER**

**5 x 2 = 10**

- |                  |                 |
|------------------|-----------------|
| 10) Mysentery.   | 13) Peritoneum  |
| 11) Patella.     | 14) Golgi body. |
| 12) Carpal bone. |                 |

**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 blood smear.
- 2) What are the records to be maintained in pathology department.

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

**5 x 5 = 25**

- |                      |                        |
|----------------------|------------------------|
| 3) VDRL test.        | 6) ESR.                |
| 4) Hanging drop test | 7) Gangrene.           |
| 5) Disinfectants.    | 8) Differential count. |

**III. WRITE SHORT ANSWER**

**5 x 2 = 10**

- |                                              |                                       |
|----------------------------------------------|---------------------------------------|
| 9) Mention two lab tests to diagnose fever . | 13) Name two anaerobic culture media. |
| 10) Mention four culture media.              |                                       |
| 11) Benzidine test.                          |                                       |
| 12) Name two live attenuated vaccines.       |                                       |

# **PARAMEDICAL BOARD, BANGALORE**

## **Supplementary Examination, July - 2013**

**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 respiratory system. Describe the differences between Right and left lungs.
- 2) Classify Epithelium. Describe each of them giving examples.

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

**2 x 5 = 10**

- 3) Shoulder joint.
- 4) Tongue.
- 5) Pons.

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

**5 x 2 = 10**

- 6) Name four Cranial nerves.
- 7) Nucleus.
- 8) Name four bones of lower limb.
- 9) Taste buds.
- 10) What is anatomical position?

### **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) Waves of normal ECG.
- 3) Intrinsic pathway of Blood coagulation.
- 4) Classify & write the functions of different types of muscles.
- 5) Family planning methods.
- 6) Tests of Bile salts and pigments.

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

**5 x 2 = 10**

- 7) Name any two methods of contraception.
- 8) Give normal value of a) WBC count and b) pulse rate.
- 9) Name any two functions of Oxytocin.
- 10) Name two errors of refraction.
- 11) Name two functions of Tongue.

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

## **QP CODE - 2144**

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

**1 x 10 = 10**

- 1) Discuss various fixatives used in Histopathology.
- 2) Discuss in detail maintenance of records in pathology and microbiology.

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

**2 x 5 = 10**

- 3) Quality control in Hematology.
- 4) Name two enriched media.
- 5) Transfusion reaction.

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

**5 x 2 = 10**

- 6) Ideal peripheral smear.
- 7) Bleeding time.
- 8) Name four fixatives.
- 9) Precursors of RBC.
- 10) Stages of development of neutrophil.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**I Year Diploma in Dental Mechanics / II Year Certificate course in**  
**Dental Mechanics**  
**(Preliminary APPLI.ED)**  
**PAPER – II (O.S)**  
**QP CODE - 1015**

**Time: 3 hrs**

**Max. Marks: 75**

**I. LONG ESSAY**

**4 x 10 =40**

- 1) Describe the anatomy of maxillary right central incisor.
- 2) Classify Gypsum products. Write the composition and function of each ingredient of gypsum bonded investment.
- 3) Write about denture supporting area. Discuss in detail about buccal shelf area.
- 4) Describe the anatomy first molar tooth.

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

**7x 5 = 35**

- 5) Irreversible hydrocolloid.
- 6) Denture relieving area.
- 7) FDI notation of primary and permanent dentition.
- 8) Articular disc.
- 9) Lab remounting.
- 10) Primary cast.
- 11) Relining.
- 12) Muscles of mastication.
- 13) Mid palatine raphe.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) What are the muscles of Mastication. Describe in detail about Masseter.
- 2) Describe in detail the course, branches and supply of Facial nerve.

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

**5 x 5 = 25**

- 3) Class III Occlusion.
- 4) Overjet and Overbite.
- 5) Tooth carving.
- 6) Movements of temporo - mandibular joint.
- 7) Significance of incisive papilla.
- 8) Types of Human Dentition.
- 9) Compensating curves.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Cusps of Carabelli.
- 11) Name four muscles of facial expression.
- 12) Bilabial sounds.
- 13) Primary Dentition.
- 14) Retro-molar pad.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Define cementum. What are its types, composition and function.
- 2) What is periodontum. Describe the histology and function of periodontal membrane.
- 3) Describe the various neoplasms of oral cavity.
- 4) Define Gingiva. Describe in detail morphological and histological features of Gingiva
- 5) What are antiseptics. Describe in detail antiseptics used in dentistry.

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

**5x 5 =25**

- 6) Dentifrices.
- 7) Scurvy.
- 8) Bacteria of Buccal cavity.
- 9) Local anesthetics.
- 10) Gram positive and gram negative organisms.
- 11) Wasting diseases of teeth.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 Inflammation. Discuss the signs and mediators of inflammation.
- 2) Describe the process of wound healing.

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

**4x 5 =20**

- 3) Sources and deficiencies of vitamin D.
- 4) Differences between Benign and Malignant tumors.
- 5) Widal test.
- 6) Enamel Hypoplasia.
- 7) Antigen - antibody reaction.

**III. Write short answers**

**3 x2 =6**

- 8) Scurvy.
- 9) Vincent's oral disease.
- 10) Sterilization.

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

**QP CODE- 2184**

**I. Write short answers**

**5 x 2 =10**

- 1) Nerve Block.
- 2) Binders.
- 3) Analgesics in Dentistry.
- 4) Styptics.
- 5) Local Anaesthetics.

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# PARAMEDICAL BOARD, BANGALORE

## Supplementary Examination, July - 2013

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) What is normal Ph of Blood. Describe the factors regulating the Ph of Blood in body.
- 2) Write in detail about Urea cycle and disorders associated with it.

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

**2 x 5 = 10**

- 3) Metabolic Acidosis.
- 4) Proteins in blood.
- 5) Van der bergh's reaction.

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

**5 x 2 =10**

- 6) Rothera's test.
- 9) Water soluble vitamins.
- 7) Chloride shift.
- 10) Name any two Disaccharides.
- 8) NPN substances in normal urine.

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

#### **QP CODE - 2133**

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

**1 x 10 = 10**

- 1) Classify General anesthetics. Discuss the merits and demerits of ether.
- 2) Classify Penicillins. Write their uses and adverse effects.

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

**2 x 5 = 10**

- 3) Pre anaesthetic medication.
- 4) What do you mean by minimal and maximal dose?
- 5) Povidine iodine.

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

**5 x 2 =10**

- 6) Uses of Mannitol.
- 9) Name two drugs used in Hypersensitivity reaction.
- 7) Oral contraceptives.
- 10) Insulin Preparation.
- 8) Hepatitis B Vaccine.

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

#### **QP CODE - 2134**

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

**1 x 10 = 10**

- 1) Describe the morphology of Mycobacterium Tuberculosis & add a note on its laboratory diagnosis.
- 2) Classify Sterilization. Add a note on autoclave

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

**2 x 5 = 10**

- 3) Louis Pasteur.
- 4) Active Immunity.
- 5) Fumigation.

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

**5 x 2 =10**

- 6) Tetanus.
- 7) Bacterial Flagella.
- 8) Mention two normal commensals of oral cavity.
- 9) Name two Zoonotic diseases.
- 10) Joseph lister.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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. Explain the Digestion and Absorption of proteins.

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

**5 x 5 = 25**

- 3) Kidney Function tests.
- 4) Buffer solutions.
- 5) Auto analyser.
- 6) Formation of Ketone Bodies.
- 7) Metabolic Acidosis.
- 8) Formation of Creatinine.

**III. WRITE SHORT ANSWERS**

**5x 2 =10**

- 9) GTT.
- 10) Benzidine test.
- 11) Isosthenuria.
- 12) Define Acids and Bases.
- 13) Hay's test.

**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 and add a note on its laboratory diagnosis.
- 2) Describe infection and modes of its transmission.

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

**5 x 5 = 25**

- 3) Diphtheria.
- 4) Leprosy.
- 5) Cholera.
- 6) Type III Hypersensitivity reaction.
- 7) Robert Koch.
- 8) Nosocomial infections.

**III. WRITE SHORT ANSWERS**

**5x 2 =10**

- 9) Hepatitis B virus.
- 10) Edward Jenner.
- 11) Four organisms causing UTI.
- 12) Name two Acid fast Bacilli.
- 13) Name two Pathogenic Fungi.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Draw a neat labeled diagram of HIV. Discuss modes of transmission and prevention of HIV.
- 2) Define and classify Hypersensitivity. Write in detail about Type 1 Hypersensitivity.
- 3) Describe the morphology, cultural characteristics of *Clostridium tetani*. Add a note on prophylaxis of tetanus.

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

**10 x 5 = 50**

- 4) Lab diagnosis of pyogenic meningitis.
- 5) Life cycle of *Plasmodium falciparum*.
- 6) Pathogenesis of Poliomyelitis.
- 7) IgE antibody.
- 8) Candidiasis.
- 9) Leprosy.
- 10) Autoclave.
- 11) Acquired immunity.
- 12) Life cycle of *E. Histolytica*.
- 13) Classification of Sterilization methods.
- 14) Anaerobic culture media.
- 15) Life cycle of *Taenia Solium*.

**III. Write short answers**

**10 x 2 = 20**

- 16) Robert Koch.
- 17) Name two live attenuated vaccines.
- 18) Name four Nematodes.
- 19) Lab diagnosis of Cholera.
- 20) Lawn culture.
- 21) Negative staining.
- 22) Name four DNA viruses.
- 23) Gaseous disinfectants.
- 24) Enriched Media.
- 25) Difference between Bacteria and Virus.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 a hemiplegic.
- 2) Explain the role of physiotherapy in managing foot drop.
- 3) Explain parental education on child handling in Cerebral palsy.
- 4) Write in detail about the definition, objectives and scope of community physiotherapy and its importance to Indian community.
- 5) Disability evaluation - Role of physiotherapy.

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

**5 x 5 = 25**

- 6) CBR organisation.
- 7) Speech therapy.
- 8) Spinal orthosis.
- 9) Genu Valgum.
- 10) Accupunture.
- 11) Congenital contractures.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Write in detail about total leucocyte counting. Draw the figures of normal leucocytes seen in blood smear
- 2) Describe in detail about preparation, fixation and staining of cytopathology smears.
- 3) Describe physical and microscopic examination of semen with WHO normal range.

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

**10 x 5 = 50**

- 4) Haemoglobin estimation - Drabkin's method
- 5) Exfoliative cytology.
- 6) Cryostat.
- 7) LE cell preparation.
- 8) AEC.
- 9) Embedding and section count.
- 10) Coomb's test.
- 11) Bombay Blood group.
- 12) Reverse blood grouping.
- 13) Physical examination of urine.
- 14) Hemotocrit.
- 15) CSF analysis.

**III. Write short answers**

**10 x 2 = 20**

- 16) Red cell indices.
- 17) Paraffin wax.
- 18) Romanowsky stains.
- 19) Bouin's fluid.
- 20) What is thrombocytopenia. Give two causes.
- 21) Barr bodies.
- 22) Mounting agents.
- 23) Ketone bodies.
- 24) EDTA.
- 25) Packed cell volume.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) What are the different methods of disposal of solid waste in your city.
- 2) Discuss Descriptive Epidemiology.
- 3) Discuss the modes of disease transmission in detail.

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

**10 x 5 = 50**

- 4) Sanitation Barrier.
- 5) Indices of thermal comfort.
- 6) Presumptive Coliform count.
- 7) Household purification of water.
- 8) Prevention of Scabies.
- 9) Drug Addicts.
- 10) Functions of a PHC medical officer.
- 11) Xerophthalmia.
- 12) Growth chart.
- 13) Modes of intervention of primary prevention.
- 14) Amoebiasis.
- 15) Milk borne disease.

**III. Write short answers**

**10 x 2 = 20**

- 16) Sulabh shouchalaya.
- 17) Aflatoxins.
- 18) Diseases transmitted by Sand fly.
- 19) Superchlorination.
- 20) Overcrowding.
- 21) Enumerate fat soluble vitamins.
- 22) Pellagra.
- 23) BCG vaccine.
- 24) Food Adulteration.
- 25) Incinerators.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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. Describe the stages of Erythropoiesis with a neat labeled diagram.
- 2) Describe the composition and functions of Gastric juice.

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

**5 x 5 = 25**

- 3) Intestinal movements.
- 4) Complications of Blood transfusion.
- 5) Pregnancy tests.
- 6) Oxytocin.
- 7) Define Hypoxia and explain its types.
- 8) Functions of Testosterone.
- 9) Actions of Insulin.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 10) Define Blood pressure with normal value in Adults.
- 11) Give any two functions of Plasma proteins.
- 12) Name the hormones of posterior pituitary gland.
- 13) Name two Ascending tracts of Spinal cord.
- 14) Name any two muscles of respiration.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**I Year Diploma in Medical Records Technology/ II Year Certificate course in**  
**Medical Records Technology**  
**HOSPITAL STATISTICS & BIostatISTICS**  
**QP CODE – 2145**

**Max. Marks: 90**

**I. LONG ESSAY**

**4 x 10 = 40**

- 1) Define Sampling. Enumerate different methods of sampling techniques. How will you select 50 samples from 2000 houses by systemic random sampling method?
- 2) Enumerate the various Mortality rates. Discuss any three in detail.
- 3) Enumerate fertility related statistics. Describe any two in detail.
- 4) Define Health information. Explain in detail sources of health information.

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

**10 x 4 = 40**

- 5) Proportional Bar diagram.
- 6) Sampling errors.
- 7) Chi square test.
- 8) Incidence and prevalence.
- 9) Age and Sex pyramid.
- 10) Disease register.
- 11) Correlation and regression.
- 12) Cost Benefit analysis.
- 13) Life tables.
- 14) Inpatient records.
- 15) Clinical trials.
- 16) Notification of diseases.

**IV) WRITE BRIEFLY ON ANY FIVE**

**5 x 2=10**

- 17) Autopsy.
- 18) Variables.
- 19) Qualitative data.
- 20) Census.
- 21) Turn over interval.
- 22) Population density.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 effects of malnutrition on oral health.
- 2) Describe in detail assessment and charting of individual diet and counseling.

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

**3 x 5 =15**

- 3) Ketone bodies.
- 4) Dental Fluorosis.
- 5) Urine preservatives.
- 6) Diet chart.

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

**QP CODE - 2186**

**I. Write short notes**

**4 x 5 =20**

- 1) Bite wing radiograph.
- 2) OPG.
- 3) Panoramic radiograph.
- 4) Bisecting angle technique.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 Urinary system and describe Kidney in detail.
- 2) Give an account on Sciatic nerve.

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

**5 x 5 = 25**

- |                           |                           |
|---------------------------|---------------------------|
| 3) Stratified Epithelium. | 6) Internal jugular vein. |
| 4) Right lung.            | 7) Thyroid gland.         |
| 5) Larynx.                | 8) Common Bile duct.      |

**III. WRITE SHORT ANSWERS**

**5 x 2 =10**

- 9) Name four tarsal bones.
- 10) Name the parts of Pituitary gland.
- 11) Sesamoid bone.
- 12) List the contents of Cubital fossa.
- 13) Name the parts of Gall Bladder.

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

**QP CODE – 2136**

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

**1 x 10 = 10**

- 1) Name the hormones of Adrenal cortex. Describe the actions and regulation of Aldosterone.
- 2) Explain actions and regulation of Insulin hormone.

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

**5 x 5 = 25**

- |                       |                                |
|-----------------------|--------------------------------|
| 3) Hypoxia.           | 6) Conducting system of Heart. |
| 4) Functions of Blood | 7) Neuron.                     |
| 5) Menstrual cycle.   | 8) Deglutition.                |

**III. WRITE SHORT ANSWERS**

**5 x 2 =10**

- 9) Name two functions of Ear.
- 10) Name two hormones acting on Breast.
- 11) Define Landsteiner's law.
- 12) Write normal value of a) Hb% b) PCV.
- 13) Name any four functions of Platelets.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**I Year Diploma in Dialysis Technology/ II Year Certificate course in Dialysis Technology**

**ANATOMY AND PHYSIOLOGY**

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

**Time: 3 hrs**

**Max. Marks: 90**

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

**QP CODE – 2155**

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

**1 x 10 = 10**

- 1) Name the parts of Nervous system. Describe briefly about Spinal cord
- 2) Name the Endocrine glands in the body. Describe Pituitary gland in detail

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

**5 x 5 = 25**

- |                                             |                                |
|---------------------------------------------|--------------------------------|
| 3) Draw a neat labeled diagram of Eye ball. | 6) Broncho pulmonary segments. |
| 4) Blood supply of Heart.                   | 7) Subclavian artery.          |
| 5) Urethra.                                 | 8) Ovary.                      |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Name the salivary glands.
- 10) Name the parts of a Long bone.
- 11) Name the layers of Scalp.
- 12) Formation and termination of Cephalic vein.
- 13) Name four structures under Deltoid muscle.

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

**QP CODE – 2156**

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

**1 x 10 = 10**

- 1) Define Cardiac cycle. Explain with a diagram the mechanical changes during cardiac cycle.
- 2) Describe the morphology and functions of WBC.

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

**5 x 5 = 25**

- |                                                                   |                    |
|-------------------------------------------------------------------|--------------------|
| 3) Complications of mismatched transfusion.                       | 7) Arterial pulse. |
| 4) Describe normal E.C.G.                                         | 8) Surfactant.     |
| 5) Functions of Proximal convoluted tubule of Kidney.             |                    |
| 6) Classify Body fluid compartments and give their normal values. |                    |

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 9) Give any two Non Excretory functions of kidney.
- 10) Name posterior pituitary hormones.
- 11) Name two pathological constituents of urine.
- 12) Normal values of a) Blood urea b) serum Creatinine
- 13) Mention the functions of CSF.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 etiology, clinical features, management and complications of Parkinsonism.
- 2) Describe the etiology, clinical features, management Chronic Myeloid Leukemia.
- 3) Describe the clinical features, complications and management of Mitral stenosis.
- 4) Describe the clinical features, complications and management of Bronchial Asthma.
- 5) Classify Diabetes Mellitus. Describe the management and complications of Diabetes Mellitus.
- 6) Discuss etiology, clinical features and management of Cirrhosis of liver.

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

**6 x 5= 30**

- 7) H1N1.
- 8) Transverse Myelitis.
- 9) Angina pectoris.
- 10) Grand mal Epilepsy.
- 11) Complications of Lung abscess.
- 12) Hodgkin's lymphoma.
- 13) Nephrotic syndrome.
- 14) Treatment of Amoebiasis.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**II Year Diploma in Medical Laboratory Technology / III Year Certificate course**  
**in Medical Laboratory Technology**  
**MICROBIOLOGY**  
**QP CODE – 3103**

**Time: 3 hrs**

**Max. Marks: 90**

**I. Long Essay – Answer any TWO**

**2 x 10=20**

- 1) Enumerate various tests to diagnose Syphilis. Describe in detail about VDRL.
- 2) Write in detail about Hospital Acquired Infections (HAI). How do you prevent them?
- 3) How will you isolate and identify Salmonella typhi from blood of a patient with typhoid fever?

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

**10 x 5 =50**

- 4) Universal Precautions.
- 5) Malignant Pustules.
- 6) ASLO test.
- 7) Crypto coccosis.
- 8) Life cycle of Taenia Solium.
- 9) Significant Bacteruria.
- 10) Agar.
- 11) IMViC reaction.
- 12) TCBS medium.
- 13) Lab diagnosis of Hepatitis B virus.
- 14) CRP test.
- 15) Serological test for Brucellosis.

**III. Write short answers**

**10 x 2 = 20**

- 16) Indole test.
- 17) Pro zone phenomenon.
- 18) Uses of Rabbit in Microbiology.
- 19) Negative staining.
- 20) Name four species of malaria.
- 21) Name two Nematodes.
- 22) Name two Oxidase positive organisms.
- 23) Name two viruses causing diarrhoea.
- 24) Draw a labeled diagram of Hook worm egg.
- 25) Name two Intra dermal tests.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Define Epidemic. Describe the steps involved in an investigation of an epidemic.
- 2) Discuss the Objectives of Ante-natal care in detail. List the "At risk" Mothers.
- 3) Discuss School health program in detail.

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

**10 x 5 = 50**

- 4) Domiciliary treatment.
- 5) Epidemiological triad.
- 6) Family physician.
- 7) Health Hazards of agricultural workers.
- 8) Indian Red Cross society.
- 9) Ferrous Sulphate and Folic acid tablets.
- 10) Indian factories act 1948.
- 11) First Aid in dog bite.
- 12) Essential drugs.
- 13) Modes of disease transmission in HIV/AIDS.
- 14) Categories and color coding of Biomedical waste.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 15) Eligible couples.
- 16) Nuclear Family.
- 17) Enumerate four International Health agencies.
- 18) World Bank.
- 19) "Time is money in Health care services". Explain.
- 20) Food fortification.
- 21) Safe period.
- 22) Trained Dais.
- 23) Integrated rural development program.
- 24) Breast feeding advantages.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Define IVP. Discuss in detail the technique involved.
- 3) Discuss record maintenance in Medico legal section of Radiology department.

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

**10 x 5 = 50**

- 4) Third generation CT scan.
- 5) PNS view.
- 6) Atomic number.
- 7) Ionic contrast media.
- 8) HSG.
- 9) Chest X-ray PA view.
- 10) Registration of Therapy patients.
- 11) Census collection and compilation.
- 12) Replenisher.
- 13) Court Summons
- 14) Transducer.
- 15) Myelography.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) MRI protocol for stroke imaging.
- 17) Echocardiography.
- 18) Pizzo electric crystals.
- 19) B-mode ultrasound.
- 20) Composition of Developer.
- 21) OPG.
- 22) Parts of sternum.
- 23) Vertebral column.
- 24) Felix bloch.
- 25) Expand MMR.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**II Year Diploma in Medical X- Ray Technology/ III Year Certificate course**  
**in Medical X- Ray Technology**  
**RADIOGRAPHY INCLUDING NEWER IMAGING TECHNOLOGY, (N.S) R-II**  
**QP CODE – 3123**

**Time: 3 hrs Max.**

**Marks: 90**

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

**2 x 10 = 20**

- 1) Write the principles of Digital radiography. In what way, Digital radiography different from conventional radiography?
- 2) Discuss the preparation, procedure and after care for Enteroclysis.
- 3) What is Digital Subtraction Angiography? Discuss in detail its principles, technique and uses.

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

**10 x 5 = 50**

- 4) PACS.
- 5) Focal spot.
- 6) Fluoroscopy.
- 7) CT guided procedures.
- 8) Testing of cassettes for screen contact.
- 9) Radiation protection.
- 10) MLC x-rays.
- 11) Geiger Muller tube.
- 12) Gamma imaging.
- 13) Sialography.
- 14) Soft tissue radiography.
- 15) Precautions to be taken in Paediatric radiography.

**III. WRITE SHORT ANSWERS**

**10 x 2 =20**

- 16) M - mode.
- 17) Hand X-rays.
- 18) Expand ERCP.
- 19) Foreign body localization in abdomen.
- 20) Artifacts.
- 21) Film Driers.
- 22) Film fogging.
- 23) Shoulder joint X-ray.
- 24) Bronchography.
- 25) Detectors.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) What is flow chart? State its importance in computer programming.
- 2) What is a computer virus? What are its complications and methods of prevention?

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

**4 x 5 = 20**

- 3) Laser printer and Dot matrix printer.
- 4) Advantages and limitations of computer.
- 5) Describe the role of computer in medical records department.
- 6) Hard Disk.
- 7) Networking.
- 8) Data processing.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 9) Laptop.
- 10) Integrated circuits.
- 11) Pen Drive.
- 12) CPU.
- 13) Power point.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**II Year Diploma in Dental Hygiene / III Year Certificate course**  
**in Dental Hygiene**  
**Operating room Technique, Chair side Assts. & Dental Materials,**  
**Ethics & Jurisprudence (N.S)**  
**PAPER – III**  
**QP CODE – 3183**

**Time: 1 1/2 hrs Max. Marks: 45**

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

- 1) Describe various specialities in Dentistry.

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

- 2) Dentist act 1948.
- 3) Objective and scope of dentistry.
- 4) Dental case history recording.
- 5) Material maintenance.
- 6) Dental Camp.

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

- 7) Filling Materials.
- 8) Computers in dentistry.
- 9) Ethics in Dental practice.
- 10) Care of Dental instruments.
- 11) Dental Auxiliary.

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**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Explain the mechanism of breathing in man.
- 2) Explain the term A.I.D.S. Name the virus causing AIDS. What precautions can be taken to prevent AIDS?

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

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

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

- 3) Glycolysis.
- 4) Mitosis and Meiosis.
- 5) Placenta structure and functions.
- 6) Carbohydrate digestion.
- 7) Classification of Enzymes.
- 8) Genetic finger printing.
- 9) Haemoglobin.

**III. WRITE SHORT ANSWERS**

**5 x 2=10**

- 10) Tidal volume.
- 11) Encephalitis.
- 12) Name any two Purine bases.
- 13) Graffian follicle.
- 14) Name two diseases caused by bacteria.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**II D.P.T – GENERAL SURGERY AND ORTHOPAEDICS**  
**QP CODE – 3194**

**Time: 3 hrs**

**Max. Marks: 90**

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

**2 x 15=30**

- 1) What are the causes of Head Injury. Describe Clinical features, Complications and management of Head injury.
- 2) What are the clinical features of Cholecystitis. How do you manage them?
- 3) Discuss carcinoma Oesophagus. How do you manage a case of Ca Oesophagus.

**II. Write short notes any THREE**

**3 x 5= 15**

- 4) Renal stones.
- 5) Appendicular mass.
- 6) Sebaceous cyst.
- 7) Lipoma.

**III. Answer any TWO**

**2 x 15= 30**

- 8) Describe the Clinical features and management of fracture of Cervical spine.
- 9) Describe the Clinical features and management of Cervical rib.
- 10) Describe the etiology of Osteomyelitis and Discuss the management of Chronic Osteomyelitis of Tibia.

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

**3 x 15= 15**

- 11) Neuropraxia.
- 12) Colle's fracture.
- 13) Exostosis.
- 14) Wound debridement.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**II Year Diploma in Medical Records Technology/ III Year Certificate course in**  
**Medical Records Technology**  
**MEDICAL AND SURGICAL CODING**  
**QP CODE – 3144**

**Time: 1 hr**

**Max. Marks: 20**

**ANSWER ANY FOUR QUESTIONS**

**4 x 5 = 20**

- 1) What are the procedures for selection of underlying cause of death for mortality tabulation?
- 2) Define basic structures and principles of classification of ICD-10.
- 3) Discuss the coding procedures for external injuries.
- 4) What are the Guidelines for certificates and rules for coding perinatal mortality?
- 5) Explain the procedure of coding Malignant conditions.

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**PARAMEDICAL BOARD BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Man and Machines.
- 2) Air pollution.

**II. ANSWER ANY ONE**

**1 x 10 = 10**

- 3) Write a letter to Principal of your college asking him for a week's leave giving suitable reasons.
- 4) Write a letter to your friend narrating about the celebration of Sports day in your college.

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

**5 x 1 = 5**

- 5) God.      6) Fox.    7) King.    8) Bachelor.    9) Ox.

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

**5 x 1 = 5**

- 10) Tall.                      13) Strong.
- 11) Foolish.                14) Bold.
- 12) Accept.

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

**5 x 1 = 5**

- 15) Afraid of.
- 16) However.
- 17) In spite of.
- 18) Not only.
- 19) Afterwards.

**VI. FILL IN THE BLANKS**

**5 x 1 = 5**

- 20) Rita has ..... pet dogs.
- 21) Mathura is between Delhi ..... . Agra.
- 22) It is ..... One rupee note
- 23) I prefer tea ..... coffee.
- 24) We must walk fast, ..... we shall miss the train.

**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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 Personality. Mention its Characteristics. What is its Classification? How do you understand personality? Mention its examples.
- 2) What is learning? Mention the kinds of learning. What are the principles of learning? How is learning applied to therapy plans?
- 3) Explain Motivation. What are the types? How are conflicts in motives resolved? Give examples.
- 4) What is Emotion and stress? Describe the types of emotions and physiological changes associated with emotions.

**II. Answer any THREE**

**3 x 10 = 30**

- 5) Give a description of components of attitude system.
- 6) Bring out the importance of Heredity and environment in the development of Individual. Mention the patterns of Growth and development
- 7) Give a narration of memory processes.
- 8) Discuss the principles of various Neuropsychological tests

**III. Answer any FIVE**

**5 x 3 = 15**

- 9) Hallucinations and Illusions.
- 10) Frustrations.
- 11) Importance of emotion.
- 12) Delusions.
- 13) Prejudice.
- 14) Perceptual disturbances.
- 15) Introverts and Extroverts.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**III D.P.T –PHYSIOTHERAPY IN MEDICAL CONDITIONS**  
**QP CODE – 3204**

**Time: 3 hrs**

**Max. Marks: 90**

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

**5 x 12 =60**

- 1) Describe the Clinical features of Parkinsonism. Add a note on its PT management.
- 2) List the investigations done in Lumbar Spondylosis and Explain its PT management.
- 3) Describe the PT management for a 35 year old male patient with Head injury.
- 4) Define Chronic Bronchitis, PT Management and long term Rehabilitation of Chronic bronchitis.
- 5) A 3 year old child with spastic cerebral palsy comes to you. Explain PT management.
- 6) Define Angina. Discuss the types of Angina and rehabilitation of the patients of CHD.

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

**5 x 6 = 30**

- 7) CTEV.
- 8) GB syndrome.
- 9) Muscular Dystrophy.
- 10) Chondromalacia patella.
- 11) Diabetic foot.
- 12) Management of Erb's palsy.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Classify WBC's. Describe the functions of WBC's.
- 2) Describe the composition and functions of Gastric juice.
- 3) Name the hormones of Thyroid gland. Describe the function of Thyroxine.

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

**10 x 5 = 50**

- 4) Pregnancy test.
- 5) Haemoglobin.
- 6) Anti coagulants.
- 7) Progesterone.
- 8) Erythropoiesis.
- 9) Neuromuscular Junction.
- 10) Heart sounds.
- 11) Carriage of Oxygen.
- 12) Cardiac output.
- 13) Myasthenia Gravis.
- 14) Rh system.
- 15) Liver function tests.

**III. WRITE SHORT ANSWERS**

**10 x 2=20**

- 16) Name two male sex hormones.
- 17) Name two hormones of posterior pituitary.
- 18) Write the normal values of a) FBS      b) Blood urea.
- 19) Name any functions of Large intestine.
- 20) Hazards of mismatched Blood transfusion.
- 21) Name two respiratory muscles.
- 22) Name two hormones of Adrenal gland.
- 23) Name two Digestive enzymes.
- 24) Name two different types of anemia.
- 25) Name two methods of contraception.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) Name the different types of Microscopes. Write about the Handling and care of Light Microscope.
- 2) Enumerate various methods of Dry Heat sterilization. Add a note on Hot air oven.
- 3) Define and Classify Immunity. Add a note on Passive immunity.

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

**10 x 5 = 50**

- 4) Autoclave.
- 5) Mac Conkey's Agar.
- 6) Acid fast staining.
- 7) Incineration.
- 8) Bacterial spores.
- 9) Inoculation methods of culture.
- 10) Enriched media.
- 11) Hot air Oven.
- 12) Complete antigen.
- 13) Name five sources of infection.
- 14) Nosocomial infections.
- 15) Antibiotic susceptibility testing.

**III. WRITE SHORT ANSWERS**

**10 x 2 = 20**

- 16) Name two uses of Vaccines
- 17) Name two Enrichment media.
- 18) Slide Agglutination test.
- 19) Name two Viral vaccines.
- 20) Stroke culture.
- 21) Name two abnormal Immunoglobulins.
- 22) Indole test.
- 23) Fumigation.
- 24) Laboratory waste disposal.
- 25) RCM.

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**PARAMEDICAL BOARD, BANGALORE**  
**Supplementary Examination, July - 2013**  
**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) What are Disinfectants? Describe the types of Disinfection. Describe the uses of Bleaching powder as disinfectant for water, faeces and urine.
- 2) What is Natural history of Disease? Discuss different levels of prevention.
- 3) Describe the Behavioural problems in street children and discuss the measures to prevent them.

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

**10 x 5 = 50**

- 4) Herd Immunity.
- 5) Cold chain.
- 6) Sampling methods.
- 7) Isolation.
- 8) Measures of Dispersion.
- 9) Epidemic curve.
- 10) Ill effects of Noise Pollution.
- 11) Secondary attack rate.
- 12) Pulse Polio.
- 13) Sentinel Surveillance.
- 14) Write the National Immunization schedule.
- 15) Control of Scabies.

**III. Write short answers**

**10 x 2 = 20**

- 16) DDT.
- 17) Benzyl Benzoate.
- 18) Relative risk.
- 19) Emporiatrics.
- 20) Standard of living.
- 21) Primary case.
- 22) Disease eradication.
- 23) Opportunistic infection.
- 24) Crude death rate.
- 25) Pie chart.

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**PARAMEDICAL BOARD, BANGALORE**

**Supplementary Examination, July - 2013**

**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) Define Osteomyelitis. Discuss in detail about its etiopathogenesis and complications.
- 2) Name the signs of Inflammation. Explain Healing of fractures.

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

**5 x 5 = 25**

- 3) Hydronephrosis.
- 4) Gall stones.
- 5) Fibroadenoma breast.
- 6) Nasal polyps.
- 7) Beri Beri.
- 8) Leiomyomas.
- 9) Difference between Exudate and Transudate.

**III. WRITE SHORT ANSWERS**

**5 x 2 = 10**

- 10) Primary complex.
- 11) Types of Necrosis.
- 12) Barret's Oesophagus.
- 13) Embolism.
- 14) Hashimoto's Thyroiditis.

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