

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

Diploma in Medical Lab Technician Course (DMLT)

PAPER I

Exam date-14/12/2021

Time: 3hrs.

Total Marks: 80

Answer any **TEN (10)** Questions only

Each Question carries 8 marks

1. What is meant by Decalcification? How do you decalcify a bony bit?
2. Explain the procedure for staining tissue sections by H & E stain?
3. Explain honing and stropping in sharpening of Microtome knives.
4. What is the procedure to fix museum specimens?
5. What are the reagents used in PAP stain? How is it done ?
6. What is the procedure for Perl's stain?
7. Write in detail about CSF cell count?
8. How is urine sugar estimated?
9. What is CBP, how is peripheral smear prepared and stained?
10. What is Blood grouping, what are transfusion reactions?
11. Explain blood sample collection by vacutainer method.
12. Write in detail about segregation and disposal of biohazard waste materials with color codes.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN MEDICAL IMAGING TECHNICIAN COURSE PAPER I

Dark Room & Radiographic Techniques

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

1. Describe construction of darkroom?
2. Write in detail about grids and their uses.
3. Write in detail about patient preparing and the procedure of IVU.
4. Micturating cystourethrography ?
5. Write in detail about direct and indirect digital radiography?
6. Write about a) focal spot b) intensifying screens.
7. Describe the technique of a) Axial view of shoulder b) skyline view of patella.
8. Draw a labelled diagram of small and large intestine and describe procedure of BMFT.
9. Describe various measures taken for radiation protection?
10. What are KVP and MAS? How do these factors affect image quality and exposure?
11. Write about production and properties of x-rays. Draw a labelled diagram of modern x-ray tube
12. Draw a neat labelled diagram of kidneys, ureters and urinary bladder?

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN OPHTHALMIC ASSISTANT COURSE

PAPER I

Anatomy, Physiology

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

1. What are the layers of Tear Film and its functions & Diagram?
2. Write about Aqueous Humor & its pathway with diagram.
3. Give examinations a) Face b) Ocular adnexa
4. Describe the anatomy of Eye lid and its functions?
5. Diagram of Visual pathway & describe its field reflect at various level?
6. Write briefly about retinal function test.
7. Write about extra ocular muscles & their action.
8. What are the indications of laser?
9. What briefly about a) Occlusion therapy & b) penalization ?
10. Describe the anatomy of orbit & its contents?
11. Write anatomy of Retina?
12. Write briefly about a) colour blindness b) night blindness

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN DIALYSIS TECHNICIAN COURSE PAPER I

Anatomy, Physiology, Infections & Communicable Diseases

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

1. Anatomy of Kidney.
2. Functions of Kidney.
3. Universal precautions in dialysis unit.
4. Management of Hepatitis B in dialysis unit?
5. Causes of AKI?
6. Diet treatment of CKD.
7. Hemodialysis machine diagram with labeling.
8. Dialysis for COVID positive patient.
9. Heparin anticoagulation?
10. Air embolism in dialysis patient and management?
11. Blood leak during dialysis and management.
12. Precautions to prevent blood borne infections in dialysis unit.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN RESPIRATORY THERAPY TECHNICIAN COURSE

PAPER I

Cardio Pulmonary Anatomy, Physiology & Medical Terminology

Exam date-14/12/2021

Time: 3hrs.

Total Marks: 80

Answer any **TEN (10)** Questions only

Each Question carries 8 marks

1. Write notes on humoral neural control of respiration?
2. Draw a neat diagram of intercoastal space. Write in detail about thoracocentesis?
3. Write about muscle of inspiration and expiration. What is paradoxical breathing?
4. Write about various lung volumes and capacities?
5. What are various methods of sterilization? How do you apply it in ICU?
6. Describe the following terms: A) Hypoglycemia B) Hypercarbia C) Pulmonary edema D) Hypovolemic shock?
7. Mechanism of cough. What are the various causes of cough?
8. Describe Oxygen Dissociation curve?
9. Describe mediastinum. Mention contents and applied anatomy.
10. What is respiratory acidosis? Its causes and management?
11. Write about computer aided diagnosis in RICU.
12. Describe Bronchopulmonary segments and label diagrams with applied anatomy and clinical importance.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

**DIPLOMA IN MEDICAL STERILIZATION MANAGEMENT AND
OPERATION THEATRE TECHNICIAN COURSE**

PAPER I

Anatomy, Physiology, Pathology, Microbiology, Definitions & Terminologies

Exam date-14/12/2021

Time: 3hrs.

Total Marks: 80

Answer any **TEN (10)** Questions only

Each Question carries 8 marks

1. What are the duties & responsibilities of Operation Theatre Technician?
2. Write in detail about designing of Operation theatre.
3. Explain about Central Sterilization department?
4. Write about Universal precautions?
5. What is Sterilization? What are different methods?
6. How do you monitor the ICU Post-operative patient?
7. What is CPR? And recent guidelines?
8. Indications for blood transfusion & complications?
9. Write in detail about Circulatory system & its importance?
10. Explain the physiology of Respiratory system?
11. Write about Hbs Ag & precautions you take while handling the HBV infected patient?
12. Precautionary measures for COVID-19 or corona virus?

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN PERFUSION TECHNICIAN COURSE

PAPER I

Anatomy, Physiology & Basics of Diagnostic Techniques

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

1. Draw a neat diagram of the heart, label and discuss the function of each part.
2. With a neat diagram discuss the anatomy of coronary artery and its circulation.
3. What is conduction system? Explain the role it plays in the normal functioning of the heart.
4. Draw a cut section of kidney and label it. How is urine formed?
5. Where is the heart situated in the body? With a neat diagram discuss the external frontal aspect of the heart.
6. What is ventilation? Describe mechanism of respiration?
7. Write about various types of blood groups. What is Rh factor and its importance. How will you cross match the blood for open heart surgery procedures.
8. Define Blood clot. Write about the intrinsic and extrinsic mechanism of clot formation.
9. Discuss the normal electrocardiograph.
10. Discuss flow-pressure-resistance. What is Laminar flow?
11. What do you mean by oxygen capacity, oxygen saturation and oxygen content in the blood? Discuss.
12. What is cardiac catheterization and its role in diagnosing cardiac diseases? Explain.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN OPTOMETRY TECHNICIAN COURSE

PAPER I

Anatomy & Physiology, Pathology, Pharmacology

Exam date-14/12/2021

Time: 3hrs.

Total Marks: 80

Answer any **TEN (10)** Questions only

Each Question carries 8 marks

1. Draw the diagram of eye & mark the parts? Write in details about function of eye.
2. Explain in detail about the visual acuity.
3. Explain the anatomy of lens with diagram.
4. Name the Extra-Ocular Muscles and their actions with diagram.
5. Discuss the Anatomy of Eyelids and Eyebrows.
6. Explain about various color vision.
7. Describe about 1) pinhole test 2) Autorefractometer 3) Interpupillary distances 4) Lensometer?
8. What is NCPB what are the functions in control of blindness rate?
9. Explain in detail about the different types of pupillary reactions.
10. Write anatomy of retina.
11. Explain in detail about the Anatomy and Physiology of aqueous humor.
12. Define cornea explain the layers with diagram.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE

PAPER I

Anatomy, Physiology, Pathology & Sources of Infections

Exam date-14/12/2021

Time: 3hrs.

Total Marks: 80

Answer any **TEN (10)** Questions only

Each Question carries 8 marks

1. Draw the diagram of a cell and label its parts? Explain about different types of cell division in detail?
2. What are the components of blood? Explain in detail about properties and functions of blood?
3. What is tissue? Explain in detail about different types of tissues?
4. Draw a neat and labeled diagram of the respiratory system? Explain in detail about the mechanism of respiration?
5. Write about different sources of infection?
6. Define inflammation? What are the different types of inflammation? What are the signs of inflammation?
7. Draw the diagram of skin and label its parts? Write about its functions?
8. Name all the endocrine glands in the body? Write about anatomy and functions of thyroid gland with the diagram?
9. Write short notes on biopsy and different types of biopsies?
10. Describe the structure of the heart with a diagram and write about its functions?
11. Define tumors? How do you differentiate between benign and Malignant tumors?
12. Draw and label the diagram of neuron? Write about various parts of the Central and peripheral nervous system.

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COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN RADIOGRAPHIC ASSISTANT COURSE

PAPER I

Radiation Hazards, Protection & Preventive Measures

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

1. What are the radiation protection measures to be taken in Radiology Department?
2. Describe about darkroom construction.
3. Write about a) TLD Badge b) Lead apron.
4. Various positions for chest X-Ray and their importance.
5. Write about grids and their uses.
6. Draw neat labeled diagram of X-ray tube.
7. Discuss about CR. What are the advantages of CR over conventional radiography.
8. What are hangers and different types of hangers?
9. What is Hysterosalpingogram?
10. Discuss about Barium swallow.
11. Discuss about mammography technique and uses.
12. Write about a) Towne's view b) X-Ray CV junction.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN CARDIOLOGY TECHNICIAN COURSE

PAPER I

Clinical Cardiology & Congenial Heart Diseases

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

Write short notes on:

1. Pulse Rate.
2. Diastolic Blood Pressure.
3. First Heart Sound.
4. Pedal Edema.
5. Atrial septal defect.
6. Pulmonary veins.
7. Interventricular septum.
8. Aortic Valve.
9. Systolic murmur.
10. Tachycardia.
11. Pericardium.
12. Coronary sinus.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN CATHLAB TECHNICIAN COURSE PAPER I

Cardiac Catheterization & Cardiac Physiology

Exam date-14/12/2021

Time: 3hrs.

Total Marks: 80

Answer any **TEN (10)** Questions only

Each Question carries 8 marks

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- 1.** Describe about the various catheters used in coronary angiography.
 - 2.** Describe about the preparation of patient and procedure of coronary angiography.
 - 3.** Describe about the contrast agents used in Cath lab.
 - 4.** Write in detail about prevention of contrast induced kidney injury.
 - 5.** Describe about the coronary anatomy of the heart.
 - 6.** Describe about the coronary sinus and venous drainage of the heart.
 - 7.** Describe about the measures of radiation safety in Cath lab.
 - 8.** Describe about cardiopulmonary resuscitation (CPR).
 - 9.** Describe about the various angiographic views used during cardiac procedures in Cath lab.
 - 10.** Describe about the various stents used for coronary artery disease.
 - 11.** Preparation of patient for peripheral angiography. Image acquisition techniques in peripheral angiography.
 - 12.** Management of anaphylaxis in Cath lab.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN ECG TECHNICIAN COURSE

PAPER I

Electro Physiology, Operation & Maintenance of ECG Machines

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

1. Write a note on Wilson central terminal.
2. Write a note on Rhythm strip.
3. Write a note on Standardization.
4. Write a note on ECG Jelly.
5. Write a note on Precautions while recording ECG on a female patient.
6. Write a note on Holter monitoring.
7. Write a note on Posterior leads.
8. Write a note on ECG machine cleaning.
9. Write a note on Left Ventricle.
10. Write a note on Heart rate.
11. Write a note on LBBB.
12. Write a note on Angina.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN ANESTHESIA TECHNICIAN COURSE

PAPER I

Anesthesiology, types of Anesthesia

Exam date-14/12/2021

Time: 3hrs.

Total Marks: 80

Answer any **TEN (10)** Questions only

Each Question carries 8 marks

1. What is general anaesthesia? What are the various drugs administered during G A.
2. Write briefly about immediate and delayed complications of Apinal Anaesthesia.
3. Write about various types of Regional Anaesthesia methods briefly.
4. Write in detail about Anaesthesia Technician duties?
5. Write about methods of Sterilization?
6. Describe in detail about Autoclaving?
7. Write in detail about Anatomy & Physiology of Respiratory system?
8. Write about Anaesthesia Machine briefly.
9. Write in detail about Laryngoscope & its parts with diagrams?
10. Write about rapid sequence induction, intubation & indications.
11. Describe in detail about Endotracheal tubes?
12. Write about Preoperative assessment.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN AUDIOMETRY TECHNICIAN COURSE

PAPER I

Anatomy of Human Ear

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

1. What is the procedure in Audiometry testing?
2. Describe about Outer Ear Structure.
3. Describe about Inner Ear Structure.
4. What is mean by decibel and Describe about Audiometer?
5. What are the types of earphones which is the most referable type?
6. Explain in detail about the Auditory pathway.
7. Explain in detail about Auditory nerve.
8. Describe Cochlear with neat diagram.
9. Explain about Pinna and how is works in hearing.
10. Explain in detail about Tympanic Membrane with Diagram.
11. Explain in detail about Tympanic Membrane.
12. Explain in detail about the Audiotory Central Nervous System.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN DENTAL TECHNICIAN COURSE

PAPER I

Dental Mechanics

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

1. What is relining and rebasing. Explain the indications and contraindications of the same?
2. Describe Anchorage. Explain Baker's Anchorage in detail.
3. Define and describe in detail about soldering and welding?
4. Explain the procedure to repair broken denture.
5. Describe in detail about different components of Hawley's appliance and its fabrication.
6. Define various classifications of partially Edentulous ridges. Explain Kennedy's classification of partial dentures.
7. Discuss in detail about the classification of springs and boxing of springs.
8. Describe various methods of fabrications of wax patterns for small casting.
9. Classify casting defects Explain in detail about porosity.
10. Give a detailed description of Canine Retractors?
11. Discuss in detail the principles of teeth setting for maxillary and mandibular complete dentures.
12. Explain in detail about fabrication of Twin Block Appliance.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN EMERGENCY PARAMEDIC COURSE

PAPER I

Anatomy, Physiology, Pathology, Microbiology, definition & terminologies,
BLS/ACLS

Exam date-14/12/2021

Time: 3hrs.

Total Marks: 80

Answer any **TEN (10)** Questions only

Each Question carries 8 marks

1. Write about brachial plexus, formation, branches, clinical importance?
2. Anatomy of mammary gland, relations, branches, clinical importance?
3. Liver function tests?
4. Blood transfusion and reactions following (complications)?
5. Coagulation of blood?
6. What is shock? Types of shock, elaborate about pathogenesis of hypovolemic shock and management
7. Define hypoxia types of hypoxia complications O2 therapy?
8. Describe bronchopulmonary segments under
 - a) General features b) Applied anatomy.
9. Describe knee joint under-type of joint
 - a) Ligaments b) Muscles attached c) Applied anatomy?
10. Contents of femoral triangle and applied aspects ?
11. Anatomy of para nasal air sinuses.
12. Define arterial blood pressure. Give its value in normal adult. Describe how it is regulated?

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN DARKROOM ASSISTANT COURSE

PAPER I

Radiation Hazards, Protection & Preventive Measures

Exam date-14/12/2021

Time: 3hrs.

Total Marks: 80

Answer any **TEN (10)** Questions only

Each Question carries 8 marks

1. Explain in detail about various Radiation Hazards and preventive measures for protection from radiation.
2. Draw neat and labelled diagram of X-ray tube.
3. Write short notes on a) X-ray erect abdomen b) Water's view.
4. Write about the difference between conventional radiography and digital radiography?
5. Write short notes on a) Anode heel effect B) Grids.
6. Explain in detail about the structure of Dark Room with diagram?
7. Write brief notes on devices used for radiation protection.
8. Write about TLD badge.
9. Write about x-ray artefacts.
10. Explain in detail about retrograde urethrogram.
11. Briefly explain about mobile X-ray units.
12. Explain in detail about the role of radiographic assistant.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR) EXAMINATIONS, DECEMBER, 2021

DIPLOMA IN MPHA (MALE) COURSE

PAPER I

Health Problems

Exam date-14/12/2021

Time: 3hrs.

Answer any **TEN (10)** Questions only

Total Marks: 80

Each Question carries 8 marks

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1. Define Diarrhoea, Classify Diarrhea dehydration add a note on how to prepare ORS(2+3+3)?
 2. Write about Universal Immunization program?
 3. Discuss about pulse polio program?
 4. Role of MPHA in preventing Tuberculosis?
 5. What are the different types of cancers and what are their symptoms.
 7. What are the symptoms of severe pneumonia and how to prevent it?
 8. Write about importance of spraying operations?
 9. Role of MPHA in providing safe drinking water to the community?
 10. First aid given to a burns victim?
 11. Role of MPHA during an epidemic outbreak ?
 12. Role of MPHA in maintaining environmental sanitation?

6. Define Pandemic! Add a note on COVID-19. Role of MPHA in preventing COVID-19.