

# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER 2022

## DIPLOMA IN MEDICAL IMAGING TECHNICIAN COURSE

### PAPER I: Dark Room & Radiographic Techniques

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

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1. Explain the Construction of Dark Room?
2. Explain in detail About All Radiation Protection Devices?
3. Write in detail about How an Myelography Examination is done on a Patient.
4. Explain in Detail about Mass Miniature Radiography (MMR)?
5. Discuss About
  - (i) Collimators
  - (ii) TLD Badge
6. Write about how X-Rays are produced?
7. Write Short notes On
  - (i) X-ray PA View Mandible
  - (ii) X-Ray Submetovertical view of Skull.
8. Write about transformers?
9. Write about (i) X-Ray PA & Oblique views of hand
  - (ii) X-Ray Cervical Spine Lat View.
10. Write the differences between DR & CR Imaging?
11. Explain in detail about contrast media?
12. Explain the procedure of Barium Enema?

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER 2022

## DIPLOMA IN DIALYSIS TECHNICIAN COURSE

### **PAPER I** : Anatomy, Physiology, Infections & Communicable Diseases

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Total Marks:80

Answer any **TEN** Questions only

All Questions carry equal marks

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1. Explain in detail about the structure and function of the nephron with diagram.
2. What are biochemical and urine tests you will confirm in patients of chronic kidney disease before starting them on dialysis?
3. What are the common immunosuppressive drugs used in transplant?
4. Describe the hemodialysis machine with parts with a diagram?
5. What are the common causes of kidney failure in the patients?
6. Describe the blood supply of the kidneys?
7. What advice about diet and exercise will you give to the dialysis patients?
8. What are the precautions when you give blood transfusion for dialysis patients?
9. How many types of kidney transplants are available in our country? Describe in detail.
10. How do you do Cardiopulmonary resuscitation (CPR) in CKD patients who have sudden cardiac arrest?
11. Explain the technique of checking of patient's Blood pressure.
12. How does kidney help in blood and bone formation?

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER 2022

## DIPLOMA IN RESPIRATORY THERAPY TECHNICIAN COURSE

**PAPER I:** Cardio Pulmonary Anatomy, Physiology & Medical Terminology

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Total Marks:80

Answer any **TEN** Questions only

All Questions carry equal marks

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1. Describe all the respiratory muscles?
2. Define anaphylaxis? Write about how to handle a patient before shifting to intensive care.
3. Write detailed notes with diagram of Myocardium?
4. Define about flow volume loops in upper respiratory tract obstruction?
5. Explain about respiratory alkalosis and metabolic acidosis?
6. Describe various types of respiration and their clinical applications?
7. Describe the physiology of respiration?
8. Define the terms a) Hypotension & Hypertension b) Hypothermia & Hyperthermia c) Bradycardia & Tachycardia d) Pigeon chest & Funnel chest.
9. Define cough & note on mechanism of cough?
10. Describe a) Intubation b) Central Cannulation c) Central Venous Monitoring?
11. What is peak expiratory flow rate? Explain in detail?
12. Write about respiratory acidosis?

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**TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD**

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**NOVEMBER 2022**

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

**PAPER I: Anatomy, Physiology, Pathology, Microbiology, Definitions &  
Terminologies**

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs).

Answer any **TEN** Questions only

Total Marks:80

All Questions carry equal marks

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- 1.Explain in detail about the role to be played by OT technician.
- 2.Explain the physiology of respiratory system.
- 3.Write about the Anatomy of heart with diagram?
- 4.Write about the agents used for hand washing & describe about hand washing technique.
- 5.Define the components of Blood?
- 6.Explain about medical records system?
7. Write about designing of operation theatre?
- 8.Write about HIV & precautions you take while handling HIV infected patients?
- 9.Write about Universal precautions?
10. Indications for blood transfusion and its complications.
11. Explain about central oxygen department.
12. Explain in detail about anatomy of female reproductive system.

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**NOVEMBER 2022**

## **DIPLOMA IN PERFUSION TECHNICIAN COURSE**

### **PAPER I : Anatomy, Physiology & Basics of Diagnostic Techniques**

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Total Marks:80

Answer any **TEN** Questions only

All Questions carry equal marks

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1. Write essay on coronary angiography?
2. What is blood pump? Discuss about various types of blood pumps?
3. Explain in detail about blood grouping? Write the procedure for transfusion?
4. Write basic Biochemistry investigations to be done before Cardiac surgery.
5. Write an essay on conduction system of heart?
6. Discuss in detail about coronary circulation?
7. Discuss in detail anatomy of coronary artery?
8. Discuss in detail anatomy of mitral valve with a neat labeled diagram?
9. Explain in detail about conduction system of hart?
10. Discuss mechanism of respiration?
11. Describe normal cardiac cycle?
12. How will you manage a patient with massive air embolism detected on bypass?

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER 2022

## DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE

### **PAPER I** : Anatomy, Physiology, Pathology & Sources of Infections

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Total Marks:80

Answer any **TEN** Questions only

All Questions carry equal marks

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1. Explain in detail about Female reproductive system with a diagram?
2. Draw the diagram of cell cycle and explain about mitotic cell division?
3. Write about components of the Digestive system with the help of diagram?
4. Write short notes on (i) HIV and HPV.
5. Define tumors? How do you differentiate between Benign and Malignant tumors?
6. Write about structure and function of the heart?
7. Write about composition and function of Blood?
8. Write about different types of biopsies?
9. Explain about various functions of Respiratory system with a diagram?
10. Write about different sources of infection?
11. Draw the diagram of stomach and label its parts. What are the functions of stomach?
12. Write about function of kidney with a diagram of excretory system?

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER 2022

## DIPLOMA IN RADIOGRAPHIC ASSISTANT COURSE

### **PAPER I** : Radiation Hazards, Protection & Preventive Measures

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Total Marks:80

Answer any **TEN** Questions only

All Questions carry equal marks

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1. Explain the procedure of Film Development & Chemical Reactions involved in it.
2. Explain in detail about all radiation Protection Devices?
3. Write in detail about how an MCUG Examination is done on a patient.
4. Explain in detail about Xeroradiography.
5. Discuss about i) Grids ii) Safe Light.
6. Write about X-Ray Generators?
7. Write short notes on (i) X-ray KUB (ii) SKYLINE VIEW OF PATELLA.
8. Write about Automatic Film Processors?
9. Write about (i) X-Ray WATER'S VIEW (ii) X-RAY-SKULL LAT VIEW?
10. Write the differences between film screen imaging & CR imaging.
11. Explain in detail about CR Image Errors.
12. Explain the procedure of Barium Enema.

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# **TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD**

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER 2022

## **DIPLOMA IN CARDIOLOGY TECHNICIAN COURSE**

### **PAPER I : Clinical Cardiology & Congenial Heart Diseases**

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Total Marks:80

Answer any **TEN** Questions only

All Questions carry equal marks

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1. Clarify the role of 2DECHO in the diagram of Heart disease.
2. Describe the symptoms and management of Myocardial infarction in ICCU.
3. Write an essay on congenital heart disease.
4. Describe in detail the blood supply of heart with diagrams.
5. Describe in detail about VT and its management?
6. Describe the procedure of CPR?
7. Describe the various emergency drugs used in ICCU..
8. Describe the procedure and indications of Holter monitoring
9. Describe the cardiac cycle?
10. Define shock write its classification & management?
11. Write an essay on Hypertension and its management?
12. Write an essay on Cardiac arrest and its management?

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NOVEMBER 2022

## DIPLOMA IN CATHLAB TECHNICIAN COURSE

### **PAPER I** : Cardiac Catheterization & Cardiac Physiology

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Total Marks:80

Answer any **TEN** Questions only

All Questions carry equal marks

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Write Short Notes on :

1. Allen's test
2. JL Catheter
3. Iohexol
4. CTO
5. LAO View
6. Hematoma
7. LVEDP
8. NIBP
9. ECG Monitoring
10. DC Shock
11. ABG
12. PA Pressure

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# **TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD**

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER 2022

## **DIPLOMA IN ECG TECHNICIAN COURSE**

### **PAPER I : Electro Physiology, Operation & Maintenance of ECG Machines**

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Answer any **TEN** Questions only

Total Marks:80

All Questions carry equal marks

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1. Describe the ECG recording procedure?
2. Describe various types of heart blocks, classification, and management.
3. Describe the defibrillator equipment and usage.
4. Describe various intervals in a normal ECG?
5. Describe the various types of ECG leads and their positioning?
6. Write the role of ECG technician while monitoring the ECG of patient.
7. Explain about contraindications of TMT.
8. Write in detail about how to maintain ECG machine.
9. Write in detail about the use of ECG in localization of Myocardial infarction?
10. Write in detail about the various arrhythmias?
11. Describe the conduction system of the heart?
12. Describe the Einthornms triangle in ECG.

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# **TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD**

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NOVEMBER 2022

## **DIPLOMA IN ANESTHESIA TECHNICIAN COURSE**

### **PAPER I : Anesthesiology, types of Anesthesia**

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Answer any **TEN** Questions only

Total Marks:80

All Questions carry equal marks

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1. Explain about various types of Anesthesia?
2. Anatomy of Heart and blood circulation?
3. Explain in detail about the assistance to be provided in Operation Theatre by Technician.
4. What are all the surgical positions and their complications?
5. Explain in detail about Anatomy and physiology of respiratory system?
6. Write in detail about sterilization of anesthesia equipment?
7. Write about checklist for anesthesia machine before use?
8. Explain in detail about various devices to facilitate intubation.
9. Write about OT fumigation?
10. Write about different types of endotracheal tubes.
11. Record maintenance in Anesthesia as a technician?
12. Explain in detail about Venous Cannula.

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

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NOVEMBER 2022

## DIPLOMA IN MPHA (MALE) COURSE

### PAPER I : Health Problems

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Answer any **TEN** Questions only

Total Marks:80

All Questions carry equal marks

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1. Define health and write about dimensions of health?
2. Role of MPHA in diagnosis, treatment and prevention of leprosy?
3. Classify the zoonotic diseases and causes of human rabies and its prevention?
4. Types of food poisoning and its prevention and control measures.
5. Role of MPHA in the field of diagnosis, treatment and preventive measures taken for malaria in the community.
6. What are the sources of radiation exposure to the healthcare worker and its preventive measures?
7. Classify the various family planning methods on control of population in India?
8. Enumerate the geriatric problems? Mention the schemes provided by the government of Telangana to the old age people.
9. Write an essay on obesity.
10. Write about preventable blindness and its control measures?
11. Write about the causes, complications and preventive measures of anemia in pregnant women?
12. Clinical features and management of covid-19 and who are the high groups?

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COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER 2022

## DIPLOMA IN AUDIOMETRY TECHNICIAN COURSE

### PAPER I : Anatomy of Human Ear

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Answer any **TEN** Questions only

Total Marks:80

All Questions carry equal marks

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1. Describe about Pinna with Diagram and how it works in hearing.
2. Which is the most important structure in hearing and how it works.
3. Describe Middle ear parts with diagram and how sound transmits in middle ear to Inner ear.
4. Describe Cochlea with neat diagram?
5. What is mean by 'DBHL' describe in detail?
6. What is mean by Audiometry testing? Explain the procedure.
7. Draw neat diagram of ear indicating all Outer, Middle and Inner ear.
8. What type of Bone vibrators are use in Pure Tone Audiometry Testing and why?
9. Explain in detail about the Auditory Pathway?
10. Explain regarding the head phones used in during PTA.
11. Draw neat diagram of Tympanic Membrane and 3 bones and explain in detail?
12. Explain in detail about the Central Auditory Processing Disorders?

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER 2022

## DIPLOMA IN DENTAL TECHNICIAN COURSE

### PAPER I : Dental Mechanics

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Answer any **TEN** Questions only

Total Marks:80

All Questions carry equal marks

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1. What is pontic? Explain in detail about pontics.
2. Discuss in detail about teeth setting and waxing.
3. Define and discuss in detail about soldering and welding.
4. Enumerate and classify casting defects and explain about porosity.
5. What is malocclusion? Classify malocclusion and explain in detail the reasons for it.
6. Discuss in detail about Kennedys classification of partial denture and its modification, and about different types of clasps.
7. Write in detail about dental waxes.
8. What is anchorage? Discuss in detail about Baker's anchorage.
9. What is an articulator? Give its classification and explain in detail parts of mean value articulator.
10. Classify gypsum products. Write in detail about hygroscopic expansion.
11. Write in detail about fabrication of occlusal rims.
12. Write in detail about special tray fabrication and spacer designs.

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NOVEMBER 2022

## DIPLOMA IN EMERGENCY PARAMEDIC COURSE

**PAPER I** : Anatomy, Physiology, Pathology, Microbiology, definition &  
terminologies, BLS/ACLS

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Answer any **TEN** Questions only

Total Marks:80

All Questions carry equal marks

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1. Describe anatomy of lower airways with neat labeled diagram.
2. Mention liver function tests and its interpretation?
3. Mention drugs used in emergency treatment of Asthma attack?
4. Write in detail about oxygen therapy?
5. Describe essential steps of ACLS?
6. Describe in detail about hand wash technique.
7. Define joint and write about types of joints along with examples?
8. Define sterilization. Explain various methods of sterilization.
9. Explain in detail about the components of blood and mention uses?
10. Describe anatomy of kidney along with neat labeled diagram.
11. Write the procedure of venous cannulation.
12. Explain neuromuscular junction with neat diagram.

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

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NOVEMBER 2022

## DIPLOMA IN DARKROOM ASSISTANT COURSE

### **PAPER I** : Radiation Hazards, Protection & Preventive Measures

Date - 10-11-2022

Time: 10: am to 1: pm (3hrs)

Answer any **TEN** Questions only

Total Marks:80

All Questions carry equal marks

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1. Explain about the x-Ray beam restrictors?
2. Explain in detail about the process of production of X-Rays?
3. Write in detail about X-ray tube with neat labelled diagram?
4. Explain in detail about MCUG procedure?
5. Discuss about construction of Dark room with neat labelled diagram?
6. Write about (i) X-Ray Knee joint (ii) X-Ray Nasal bone?
7. Write about intensifying screens.
8. Write about AERB Guidelines for Radiology Department?
9. Write about (i) TLD badge (ii) safe light.
10. Write about Automatic Film Processors.
11. Write about Invertogram.
12. Explain about types, structure & functions of X-Ray Cassettes?

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