

# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER, 2022

## DIPLOMA IN MEDICAL IMAGING TECHNICIAN COURSE

### **PAPER II** : Ultra Sonography & Color Doppler

Date - 14-11-2022

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 principle & physics behind color Doppler examination.
2. Explain in Detail about all transducers along with its application?
3. Write in detail about Trans rectal Sonography.
4. Explain in detail about Carotid Doppler.
5. Discuss About i) Ultrasound Gel ii) Silver recovery.
6. Write about Lead Devices used in your department.
7. Write about Principle of ultrasonography & physics behind it?
8. Write about BABYGRAM & its applications.
9. Write about i) X-ray views of Mandible ii) X-ray Mastoids.
10. Write about ultrasound of Prostrate Gland.
11. Explain in detail about ultrasound guided FNAC.
12. Explain about Image Artefacts in CT scan.

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER, 2022

## DIPLOMA IN DIALYSIS TECHNICIAN COURSE

### **PAPER II** : Pharmacology, Pathology & Dialysis Management

Date - 14-11-2022

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. How do clean the blood spill in the dialysis unit?
2. Explain the dialysis procedure in children in detail?
3. Explain the method of anticoagulation dialysis?
4. What is dialysis disequilibrium and how to prevent and treat it?
5. What are the responsibilities of a dialysis technician?
6. How would you do dialysis for a patient infected with HIV? What precautions would you take to prevent the spread of HIV virus in your unit?
7. What are the precautions you would observe for pregnant patients during dialysis?
8. What are the tests to check for quality of water in dialysis unit?
9. What is Jeevandan programme.
10. What are the types of dialyzer reactions?
11. How do you take care of the central venous catheter?
12. How would you treat hypotension on dialysis.

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# **TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD**

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
**NOVEMBER, 2022**

## **DIPLOMA IN RESPIRATORY THERAPY TECHNICIAN COURSE**

### **PAPER II : Patient Contact Techniques & Anesthesiology**

Date - 14-11-2022

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. Write about Oxygen Concentrators and Nebulizer.
2. Describe the Principles of Pulse Oximeter and various types of Pulse Oximeters?
3. What is Respiratory Failure? Describe different types of Respiratory Failure.
4. What is OSA? Describe about Polysomnography?
5. Explain in detail about duties of Respiratory Therapist in ICU?
6. Write about central Venous Cannulation and Central Venous Pressure monitoring.
7. Write about advanced life support.
8. Describe various breathing exercises in COPD patients?
9. Describe about different NIV modes?
10. Write about Pneumothorax and its management.
11. Describe the steps to wean a patient from Ventilator support.
12. Write briefly about the following drugs.
  - a) Noradrenalin b) Hylocaine
  - c) Dopamine d) Hydrocortisone?

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER, 2022

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

### **PAPER II** - Pharmacology, Respiration & Sources of Infections

Date - 14-11-2022

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. Write in detail about sources of infections and prevention of infection?
2. Explain about agents used in chemical disinfection?
3. What is sterilization? Describe about different sterilization methods?
4. How do you dispose hospital waste? Mention about colour coding used in hospital waste?
5. Write notes on tuberculosis?
6. What is gas sterilization? Complications of Ethylene oxide sterilization?
7. Explain in detail about characters of Benzene, Chloroform, Glycerin and Formaldehyde?
8. Explain in detail about hand washing techniques?
9. Explain about different Emergency drugs?
10. Write in detail about Anesthesia?
11. Explain in detail about Respiration?
12. Explain in detail about Antinode and the purpose?

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER, 2022

## DIPLOMA IN PERFUSION TECHNICIAN COURSE

**PAPER II** : Patho Physiology, Pharmacology & Perfusion Techniques

Date - 14-11-2022

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 Medazolam?
2. Explain in detail about the CPB?
3. Explain in detail about the different Perfusion Techniques?
4. Explain in detail about the Equipment's used in Perfusion.
5. Explain in detail about the Adrenaline and its purpose.
6. Explain in detail about KCL and NaHCo<sub>3</sub>?
7. What is vasoconstrictor? Mention its uses in cardiac surgery?
8. Discuss in detail Warm cardioplegia & its delivery techniques?
9. Describe Principles of Deep Hypothermic Circulatory Arrest (DHCA)?
10. Discuss role of TEE (Transesophageal echo) during cardiopulmonary bypass?
11. Describe various methods of de-airing in cardiac surgery?
12. Discuss in detail role of heat exchangers in cardiac surgery?

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER, 2022

## DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE

### PAPER II : General Physics, Radiography Techniques & Medical Imaging

Date - 14-11-2022

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. . Write about X-ray Production and properties of X-Rays?
2. What are AC and DC current? Write about types of transformers used in X-ray equipment's?
3. Write about Diagnostic radiology techniques?
4. Write about atomic structure, define atomic number (Z), and mass number (A)?
5. Write about (i) photoelectric effect and (ii) Compton effect?
6. Write in detail about simulation in radiotherapy and the purpose?
7. Write in detail about Medical Imaging and its purpose?
8. Write about alpha, beta and gamma radiation?
9. Explain in detail about (i) Pascal law and (ii) Ohm's law?
10. Write about ALARA principal?
11. Write about different views and methods of Mammography?
12. Explain in detail about radioactivity.

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# **TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD**

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
**NOVEMBER, 2022**

## **DIPLOMA IN RADIOGRAPHIC ASSISTANT COURSE**

### **PAPER II : Radiographic Techniques**

Date - 14-11-2022

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. Write in detail about IVU?
2. Write short notes on a) Skyline view b) cervical spine – lateral view.
3. Mention different types of barium studies. Draw a neat labelled diagram of gastrointestinal tract.
4. What are the various types of contrast used in radiology department
5. Write about a) RGU b) fistulogram.
6. Write in detail about Computed Radiography (CR).
7. Write short notes on a) Townes view b) Mastoid view?
8. Write about a) KVP b) MAS?
9. Write short notes on a) collimators b) cones.
10. Write about digital radiography. What is the difference between direct and indirect digital radiography?
11. Explain about transducers used for ultrasound examination.
12. Write in detail about MCUG.

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COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
**NOVEMBER, 2022**

## **DIPLOMA IN CARDIOLOGY TECHNICIAN COURSE**

### **PAPER II : Hypothermia & Pharmacology**

Date - 14-11-2022

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. Dobutamine
2. Amiodarone
3. Normal Body temperature
4. Bruce Protocol
5. Echo Jelly
6. Dipyridamole
7. Strain rate
8. LV segments
9. Metoprolol
10. Digoxin
11. LMCA
12. Cardioplegia

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COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
**NOVEMBER, 2022**

## **DIPLOMA IN CATHLAB TECHNICIAN COURSE**

### **PAPER II : Devices used in Pacing Pace-maker and its types**

Date - 14-11-2022

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 about ABG Monitoring.
2. Describe various types of stents.
3. Describe various types of guidewires & balloons
4. Describe the procedure of permanent pacemaker implantation.
5. Describe the procedure of peripheral angiogram.
6. Describe the various contrast agents used in coronary angiography and their side effects.
7. Describe the PBMV procedure, indication, contraindications and complications.
8. Describe in detail the pre procedure preparation for PPI and post procedure care
9. Describe in detail the radiation exposure in Cath lab and the prevention of radiation injury
10. Describe the TPI procedure and complications.
11. Describe in detail heat sterilization methods.
12. Describe in detail methods renal angioplasty procedure.

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COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
**NOVEMBER, 2022**

## **DIPLOMA IN ECG TECHNICIAN COURSE**

### **PAPER II : Cardio Vascular Pathology & Biochemistry of System**

Date - 14-11-2022

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. Acute MI
2. Hyperkalemia
3. Digoxin
4. Holter Monitoring
5. Complete Heart Block
6. Adenosine
7. Mitral Stenosis
8. Cardiac Arrest
9. ST Depression
10. R-R Interval
11. V3R
12. LVH

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# **TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD**

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
**NOVEMBER, 2022**

## **DIPLOMA IN ANESTHESIA TECHNICIAN COURSE**

### **PAPER II : Pharmacology & Equipment Management**

Date - 14-11-2022

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. What are the emergency drugs used in anesthesia?
2. What are the indications of endotracheal intubation?
3. Write about monitoring equipments?
4. Write about Anesthesia Machine?
5. Write about Oxygen & Nitrous Oxide?
6. Write about various I V fluids Explain in detail?
7. Write in detail about central gas pipeline system? Write its indications & contraindications?
8. Explain in detail how to manage preoperative hypotension?
9. Explain in detail inhalation agents and their uses?
10. Write in detail about cardiac drugs used?
11. Explain in detail about Pharmacology?
12. Explain in detail about antibiotic drugs.

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**TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD**  
**COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,**  
**NOVEMBER, 2022**  
**DIPLOMA IN MPHA (MALE) COURSE**

**PAPER II : Health Education**

Date - 14-11-2022

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 are all the communication barriers and write the difference between health education and propaganda?
2. Write about the various practices of health education in health and disease?
3. Enumerate the causes of maternal mortality and preventive measures?
4. How do you create awareness on sexually transmitted diseases (STDs) in the community?
5. Role of MPHA in school health programme.
6. What are the benefits of yoga and meditation on health of an individual in daily life?
7. Write in detail about the behavioral problems in children?
8. What are all the genetic problems? Discuss on various schemes available in India?
9. Write about the clinical features of pulmonary tuberculosis and discuss about the NTEP Program?
10. What is the role of district blindness control society to achieve maximum reduction in preventable blindness?
11. Write a note on pulse polio programme in India?
12. Explain in detail about National Immunization Schedule?

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**NOVEMBER, 2022**

## **DIPLOMA IN AUDIOMETRY TECHNICIAN COURSE**

### **PAPER II : Audiogram**

Date - 14-11-2022

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 Visual Reinforcement audiometry?
2. Describe about OTO, Acoustic Emission and what all types in testing.
3. What is conductive hearing loss, in which cases it can be observed.
4. Explain difference between conductive and mixed hearing loss with audiogram.
5. When a 4yrs child is diagnosed as bilateral moderately severe Sensorial hearing loss, what is the recommended should be followed explain in detail.
6. Explain about Amplification? In which cases we recommend Amplification.
7. Difference between speech Therapy and Auditory verbal therapy.
8. Explain in detail about Behavioral observation audiometry?
9. Which is the best test to do for kids.
10. What is mean by stuttering? Explain in detail.
11. Explain in detail about speech and Language assessment.
12. Difference between OAE & BERA? Explain in detail.

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# TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
NOVEMBER, 2022

## DIPLOMA IN DENTAL TECHNICIAN COURSE

### **PAPER II** : Dental Material & Basic Knowledge of Computer

Date - 14-11-2022

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. Write in detail about physical stages of polymerization.
2. Classify memory of a computer. Write two examples for each memory type.
3. Classify ceramics. Write its composition. Describe all ceramic materials.
4. Describe in detail about various alloys being used in dentistry?
5. Write the differences between self-cure, heat cure and light cure resin?
6. Give the classification of waxes used in dentistry. Write in detail about inlay wax
7. Write in detail about abrasive and polishing agents used in dentistry.
8. Mention benefits and limitations of computer?
9. Classify gypsum products, Write the differences between dental stone and dental plaster.
10. Classify dental cements. Write about glass ionomer cement in detail.
11. Classify impression materials. Write in detail about alginate?
12. Classify types of investments materials and describe in detail investments used for casting Titanium alloys?

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**NOVEMBER, 2022**

**DIPLOMA IN EMERGENCY PARAMEDIC COURSE**

**PAPER II** : Medical, Paediatric & Neonatal emergencies, Environmental Hazards,  
Toxicology & ICU Care

Date - 14-11-2022

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 pre hospital management of unconscious patient?
2. Describe immediate management of hypertension at 60yr old male patient with chest pain.
3. Write about APGAR score and steps of neonatal resuscitation.
4. Write about any 5 emergency drugs used in ICU.
5. Explain management of 25 year old male consumed OP poison.
6. Describe ABG (arterial blood gas analysis).How will you collect blood sample from ABG?
7. Define Ventilator. Explain various modes of ventilation.
8. Describe management of 3yr old child with 102 F fever and seizures.
9. Explain in detail about care provided to ICU.
10. Write about Environmental hazards. How will you manage mass casualty.
11. Discuss ECG. How will you place leads for 12 lead ECG and its interpretation.
12. Write about the precautions to be taken while transferring Covid patient to hospital.

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COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,  
**NOVEMBER, 2022**

## **DIPLOMA IN DARKROOM ASSISTANT COURSE**

### **PAPER II : Radiographic Techniques**

Date - 14-11-2022

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 barium meal Examination?
2. Explain in detail about Babygram.
3. Write in detail about contrast media used in radiology department.
4. Explain in detail about IVP procedure?
5. Discuss about ELORA principles.
6. Write about i) X-Ray Mastoids ii) X-Ray Cervical spine.
7. Write about Generators.
8. Write about various X-Ray views taken for Mandible.
9. Write about i) X-Ray Styloid process ii) X-Ray Chest PA view?
10. Write about CR system.
11. Write about X-Ray filters.
12. Explain about cineflurography.

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