

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,
NOVEMBER, 2022
DIPLOMA IN MEDICAL IMAGING TECHNICIAN COURSE

PAPER III : MRI Techniques & Nuclear Medicine Technology

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Describe the various sequences used in MRI brain and their importance.
2. Discuss about MR angiography and various applications.
3. What are the various safety precautions to be taken in MRI department?
4. Discuss about CT cisternography and its applications.
5. Discuss about MRCP.
6. Discuss about MRI protocol for knee imaging.
7. CT venography vs MR venography.
8. Discuss about MR spectroscopy and its applications.
9. Discuss about advantage of MRI over CT.
10. Discuss about PET-CT. What are the indications of PET-CT
11. What are various measures to be taken to reduce radiation dose in pediatric CT?
12. Discuss about AERB safety guidelines for planning of radiology department.

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NOVEMBER, 2022

DIPLOMA IN DIALYSIS TECHNICIAN COURSE

PAPER III : Dialysis-II (Techniques) Diseases of kidney & Hemodialysis

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Explain the components of Reverse osmosis plant or water processing plant with a diagram.
2. How do assess if the water processing plant or RO plant is functioning normally?
3. Explain the function and importance of various alarms in the dialysis machine.
4. What are the various types of vascular access in a patient on hemodialysis?
5. How do you perform dialysis for a COVID positive patient?
6. What are universal precautions to be followed in dialysis unit?
7. What is CRRT and for which patients it is done? What are the various types of CRRT?
8. How do you do regeneration of the softener?
9. What are the complications which can be seen in patient during dialysis?
10. What are the duties of dialysis technician?
11. How do give iron injection and erythropoietin for patient on dialysis?
12. What are the important emergency drugs which should be available in dialysis and when are they used?

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COMBINED PARAMEDICAL (REGULAR/SUPPLEMENTARY) EXAMINATIONS,
NOVEMBER, 2022
DIPLOMA IN RESPIRATORY THERAPY TECHNICIAN COURSE

PAPER III : Respiratory Therapy Science & Respiratory Practices

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Write short note on a) Suctioning b) Chest physiotherapy
2. How do you detect auto peep? What measures are taken to reduce Auto peep?
3. Explain in detail about obstructive sleep apnoea and its management.
4. Define COPD. Discuss the causes, critical features.
5. Explain in detail about: a) Nebulization b) Home oxygen therapy?
6. Define about various low flow oxygen systems?
7. Write the uses and procedure to use CPAP machine.
8. Describe about various drugs used in status asthmatics.
9. Write an essay on emergency drugs used in respiratory incentive care unit (RICU).
10. Write procedure for sterilization & disinfection of tubing in RICU?
11. Explain in detail about documentation procedure in RICU.
12. Write an essay on pneumonia and its management?

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NOVEMBER, 2022
DIPLOMA IN MEDICAL STERILIZATION MANAGEMENT AND
OPERATION THEATRE TECHNICIAN COURSE
PAPER III Bio Medical Sciences, Physical Examinations & Cardiac
Procedures

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Explain in detail setting up of OT in case of Appendicitis.
2. Explain the procedure of catheterization in male & write indications & complications.
3. Explain in detail about Cardiopulmonary resuscitation.
4. Write about defibrillator.
5. Write in detail about diathermy machine.
6. Explain about Suction machine.
7. Write about AMBU bag.
8. How do you assess sterility in OT?
9. Write about different Intravenous fluids used in OT.
10. Explain in detail about various burns & measures to be taken for treatment.
11. Explain in detail about the awareness required for management of different units in a Hospital.
12. Explain in detail about precautionary methods of transporting and transferring patients

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DIPLOMA IN PERFUSION TECHNICIAN COURSE

PAPER III : Cardio Pulmonary By Pass & Clinical Application of By Pass
Techniques

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Write in detail about Defibrillator with its uses.
2. Discuss in detail about cardio pulmonary bypass.
3. Write in detail about cardio verter and its uses and hazards.
4. Write in detail about mechanical ventilators.
5. Write detailed procedure for Handling ABG Machine.
6. Explain in detail methods of documentation in ICCU.
7. Describe in detail arterial filter.
8. Discuss in detail Intra-Aortic Balloon Pump (IABP) in cardiac surgery.
9. Describe in detail two stages of venous cannulae.
10. What are the patient parameters monitored during cardiac surgery on bypass?
11. Describe Pulmonary artery venting.
12. Discuss in detail Arterial Blood Gas (A.B.G) analysis.

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NOVEMBER, 2022
DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE
PAPER III: Radiation Therapy Physics & Radiation Protection

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Describe in detail about Medical Linear accelerator with diagram.
2. Write briefly about TLD badge.
3. Write about AERB dose limits for radiation worker, general public and pregnant women.
4. Write about quality assurance methods used in radiotherapy.
5. Write about immobilization devices used in radiotherapy.
6. Write short notes on photoelectric and Compton Effect.
7. Write about duties of Radiotherapy Technician.
8. Write about High Dose rate Brachytherapy.
9. Explain in detail about penumbra and its types.
10. Explain in detail about various steps in treatment of Ca Breast post-op with radiotherapy.
11. Write about Beam modifying devices.
12. Draw the diagram and explain about Cobalt-60 tele therapy unit.

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NOVEMBER, 2022

DIPLOMAIN RADIOGRAPHIC ASSISTANT COURSE

PAPER III : Ultra Sound Imaging, Interventional Procedures & Angiography

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Principle of ultrasound imaging. What is a piezoelectric effect?
2. What are different types of probes used in ultrasonography?
3. Preparation of patient for a) ultrasound abdomen b) IVU
4. Draw a labeled diagram of major arteries of lower limb.
5. Write briefly about ultrasound guided procedures.
6. Write about intra venous contrast media.
7. What are the advantages of ultrasound over CT scan?
8. What is digital subtraction angiography?
9. Write briefly about fluoroscopy.
10. Write about a) barium meal follow through b) barium enema.
11. Write about procedure of ivu.
12. Write very briefly about a) CT angiography b)MR angiography

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NOVEMBER, 2022

DIPLOMA IN CARDIOLOGY TECHNICIAN COURSE

PAPER III : Introduction of ICU and its Structure

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

Write Short Notes on:

1. Defibrillator
2. Multiparameter Monitor.
3. Bradycardia
4. Adenosine
5. Pulse Oximeter
6. pericardiocentesis
7. ST-Elevation
8. Intracath
9. Streptokinase
10. Pulmonary Embolism
11. Dyspnea
12. ICCU Bed

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NOVEMBER, 2022

DIPLOMA IN CATHLAB TECHNICIAN COURSE

PAPER III : Cardio Vascular Physiology & Pulmonary Resuscitation

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Describe in detail about CPR.
2. Write in detail about cardiac output.
3. Explain in detail about VT & VF and its management.
4. Describe the role of blood pressure monitoring in cath lab.
5. Describe no reflow phenomenon in coronary intervention and its management.
6. Describe in detail about pericardio centesis.
7. Describe the role of ECG monitoring in Cath lab.
8. Describe the usage of GP2b3a inhibitors in Cath lab.
9. Enumerate the various arrhythmias and their management in Cath lab.
10. Describe the role of technician in Cath lab.
11. Describe the arterial access for Coronary angiogram, complications and management of puncture site.
12. Describe in detail about Coronary artery anatomy with the help of a diagram.

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NOVEMBER, 2022

DIPLOMA IN ECG TECHNICIAN COURSE

PAPER III Defibrillator-indications & Operations

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

Write Short Notes on:

1. DC Version
2. TPI
3. Biphasic Defbrillation
4. SVT
5. A-V Node
6. Intracardiac ECG
7. Paediatric Paddles
8. Sinus Node
9. Ventricular Tachycardia
10. Lead V8
11. Treadmill
12. Hypotension

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NOVEMBER, 2022

DIPLOMA IN ANESTHESIA TECHNICIAN COURSE

PAPER III Cardio Vascular Physiology & Pulmonary Resuscitation

Date - 16-11-2022

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

Total Marks: 80

Answer any TEN Questions only

All Questions carry equal marks

1. What are the types of blood groups? Write about blood products?
2. Write about immediate and delayed complications of spinal anaesthesia.
3. Explain in detail about ICU and its management.
4. Explain in detail about instruments to be kept ready for general anaesthesia.
5. Explain in detail about pulse oximeter, capnometer.
6. What are all the surgical positions and their complications?
7. What is CPR? Write steps for CPR.
8. Write an essay on care of patient during pre anaesthesia.
9. Write in detail about coronary circulation.
10. Explain in detail about electrolyte and fluids balance.
11. Explain in detail about care of patient on ventilator.
12. Write an essay on Defibrillator.

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NOVEMBER, 2022
DIPLOMA IN MPHA (MALE) COURSE

PAPER III : Environmental Sanitation & Hygiene

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. What are the various sources of water pollution? Classify water related diseases.
2. Household purification of water to prevent water-borne diseases.
3. Effect of air pollution on human, social and economic aspects, prevention and control measures.
4. Social goals of housing and housing standards.
5. Disinfection of water by chlorination method.
6. Write a note on RCA latrine.
7. Steps of handwashing techniques.
8. Sources of noise pollution, prevention and control measures.
9. Steps of investigation of food poisoning in a village.
10. Anti-Rodent measures.
11. Role of personal hygiene in scabies and its control measures.
12. ESI ACT.

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NOVEMBER, 2022
DIPLOMA IN AUDIOMETRY TECHNICIAN COURSE

PAPER III : Audiogram

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Explain about Audiogram.
2. What is the procedure to do Audiometry? Explain in detail.
3. What are the Screening Procedures to diagnose hearing loss?
4. Explain about Presbycusis.
5. What is mean by Impedance test? When it is considered as diagnostic tool?
6. What is mean by noise induced hearing loss.
7. Explain in detail about Visual Observation Audiometry.
8. What is Diagnostics test to evaluate the Hearing loss?
9. What is mean by conditioning the child and how to do when a child with 3yrs to perform Pure Tone Audiometry.
10. Describe Audiogram with bilateral conductive hearing loss?
11. What are the types of ear phones which is most advice type?
12. Explain in detail about the Audiometry and its Functions.

TELANGANA STATE PARAMEDICAL BOARD, HYDERABAD
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NOVEMBER, 2022
DIPLOMA IN DENTAL TECHNICIAN COURSE

PAPER III : Oral Anatomy, Applied Physics & Chemistry

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Discuss about anatomical landmark areas in mandibular denture base area.
2. Write in detail about muscle of mastication.
3. Write difference between primary and permanent dentition and discuss the eruption sequence of each.
4. Discuss in detail about maxillary canine with diagrams.
5. Discuss in detail about nerve supply of maxillary teeth.
6. Discuss in detail about TMJ joint with diagrams.
7. Write about electric furnaces, heaters and thermostat used in dentistry.
8. With well labelled diagram, explain about cervical line, embrasure, cusp, ridge and sulcus with diagrams.
9. Discuss in detail about Enamel, Dentin and Pulp.
10. Discuss different types of dental formulas in dentistry.
11. Write about different structures present in oral cavity.
12. Discuss about compensating curves.

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NOVEMBER, 2022
DIPLOMA IN EMERGENCY PARAMEDIC COURSE
PAPER III :_Surgical Orthopedic, ENT Emergencies, Diasters, Obstetrics,
OT & Post- operative care

Date - 16-11-2022

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

Total Marks: 80

Answer any TEN Questions only

All Questions carry equal marks

1. Describe in detail about types of I.V fluids and their uses.
2. How will you assess burns? Write management of 50%of burns patient.
3. Discuss management of Primi with 3rd trimester brought to the casualty with seizures who is a known case of PIH (pregnancy induced hypertension).
4. What is a Triage? How it is useful during disaster management?
5. Discuss management of 4yrs old child with stridor due to foreign ingestion on connecting Pulse Oximeter saturation is 85%.how do you resuscitate this child?
6. How do you transfer and manage a 40yr old patient with open wound fracture femur?
7. Write in detail about steps of normal vaginal delivery.
8. Describe management of head injury patient who is unconscious.
9. Explain steps of Foley's catheter insertion and its indications.
10. Describe management of foreign body nose of 2yr old child.
11. How will you prepare OT for a burst abdomen case?
12. Write in detail about post-operative care.

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NOVEMBER, 2022
DIPLOMA IN DARKROOM ASSISTANT COURSE

PAPER III :_Ultrasound Imaging, Interventional Procedures & Angiography

Date - 16-11-2022

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

Answer any TEN Questions only

Total Marks: 80

All Questions carry equal marks

1. Write short notes on a) safe lighting b) line focus principle.
2. Write about digital subtraction angiography technique and preparation of patient.
3. Differences between X-ray mammography and sonography.
4. Write the differences between CT and MRI.
5. Write about mobile X-ray unit and its uses.
6. Describe the role of dark room assistant in radiology department.
7. Draw a neat labelled diagram of Urinary system.
8. Write short notes on a) fixer b) developer.
9. Write about Ray cassette. Explain about different types of x-ray cassettes.
10. Write short notes on: a) preparation of patient for carotid Doppler. b)preparation of patient for ultrasound abdomen
11. Explain about Transducers used for ultrasound examination.
12. Write about color Doppler and its uses.
