

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
Diploma in Medical Lab Technician Course (DMLT)

PAPER III
Biochemistry, Techniques & Metabolism

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Name the Plasma proteins. Add a note on functions of albumin.
2. Classify Lipoproteins. Write in detail about Cholesterol estimation.
3. Enumerate the parts of Colorimeter with diagram. Discuss uses of it and add a note on laws of colorimetry.
4. What are different methods for Urea estimation? Write any one method in detail.
5. Define PH. Write in detail about PH meter with diagram.
6. Name the ketone bodies. Write in detail about test used for identification of ketones bodies.
7. What is Chromatography? Write in detail about the procedure.
8. Name various anti-coagulants and discuss in detail about them.
9. Discuss Glucose Tolerance Test (GTT) in detail and mention pre-requisites and indications for GTT.
10. Enumerate the types of Jaundice. Discuss about Vandenberg test for bilirubin and Write its clinical significance.
11. Name Thyroid hormones. Write a note on normal values and TSH.
12. Classify fat soluble vitamins. Write in detail about source, RDA and biochemical functions of Vitamin D.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN OPHTHALMIC ASSISTANT COURSE

PAPER III
Optics, Refraction

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Discuss briefly about a) Progressive lens b) Aphakic Spectacles.
2. Write about Keratometry in detail.
3. Write principles of Retinoscopy and uses.
4. Write about Accommodation tests and AC/A ratio.
5. Write about eye camps and importance.
6. Discuss blindness, Classification and Low Vision Aid's.
7. Discuss about Neutralization and various methods.
8. Write about Pathological Myopia.
9. Write about Mobile Ophthalmic Unit.
10. Discuss about a) Prisms b) Spherical aberrations
11. Discuss about Lensometer.
12. Discuss about Presbyopia in detail with management.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN OPTOMETRY TECHNICIAN COURSE
PAPER III

Clinical Refraction, Diseases of Eye, Case Presentation

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Write about CRVO and management.
2. How will you manage a case of Optic Neuritis?
3. Discuss a) Chalazion b) Prerygium.
4. Discuss about Retinoblastoma and management.
5. Write about Retinoscopy, Trial set and accessories.
6. Corneal ulcer features and management.
7. Discuss Sympathetic Ophthalmitis.
8. Discuss vision testing in infants, children below 5 years and above 5 years.
9. Write about a) Autorefractometer b) Conjunctivitis
10. Discuss about signs and symptoms of Acute Angle Closure Glaucoma.
11. Explain Tonometry.
12. What is Computer Vision Syndrome?

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025

DIPLOMA IN DIALYSIS TECHNICIAN COURSE PAPER III

Dialysis-II (Techniques) Diseases of Kidney & Hemodialysis

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. What are the Duties of a Dialysis Technician?
2. What are the various types of vascular access used for dialysis?
3. How do you check that the fistula of the patient is working properly when you check the patient in dialysis unit?
4. How do you do if there is a blood leak alarm?
5. How do you perform dialysis for a hepatitis B or hepatitis C positive patient?
6. What are the various techniques for AV fistula needling?
7. What are the types of biomedical waste generated in a dialysis unit?
8. Describe pediatric dialysis.
9. What food items should not be given to patients with CKD?
10. What is the hub and spoke model of dialysis by government of Telangana (nodal and peripheral center) for dialysis.
11. How do you wash the dialyzer after dialysis if you are re-using the dialyzer?
12. What are the universal precautions in dialysis unit?

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN RESPIRATORY THERAPY TECHNICIAN COURSE
PAPER III
Respiratory Therapy Science & Respiratory Practices

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Describe ARDS and its management.
2. Describe in detail about nosocomial infections.
3. Describe about (a) ECG (b) Capnography.
4. Write notes on ABG and different parameters measured by it.
5. Describe about ventilator settings used in the management of pulmonary edema.
6. Write notes on Thoracocentesis.
7. Describe ventilator and its advantages and disadvantages.
8. Write notes on emergency drugs used in ICU.
9. Write notes on pneumonia and its management.
10. Write notes on control of respiration.
11. Describe in detail about Humidification techniques.
12. Describe Respiratory complications in a patient of Renal failure.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN AUDIOMETRY TECHNICIAN COURSE
PAPER III
Audiogram

Date - 16-07-2025
Time: 10 am to 1 pm (3hrs)
Answer any **TEN** Questions

Total Marks:80
All Questions carry equal marks

1. Explain about behavioural observation audiometry.
2. Difference between conductive and mixed hearing loss.
3. Difference between speech therapy and auditory verbal therapy.
4. What is mean by fluency disorder?
5. Difference between subjective and objective tests.
6. Explain in detail about physiology of hearing.
7. Explain about Audiogram.
8. What are hearing aids to be recommended for bilateral profound hearing loss cases?
9. Explain augmentative and alternative communication.
10. What is mean by presbycusis and treatment?
11. What is mean by impedance test? When it is considered as diagnostic tool?
12. Explain about body level hearing aids.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN EMERGENCY PARAMEDIC TECHNICIAN COURSE
(DEPT)
PAPER III

Surgical Orthopedic, ENT Emergencies, Diasters, Obstetrics, OT &
Post Operative care

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Describe the Ryel's tube and its indications.
2. How do you manage a case of cervical spondylosis patient with quadriplegia?
3. How do you manage breech delivery?
4. How do you assess and manage fracture of femur in 60 year female?
5. How do you assess and manage electrical burns in 40-year-old patient?
6. Write steps in assessment of unconscious patient and how do you manage.
7. Write in detail the causes, clinical features and management of hypotension.
8. Discuss the management of 2nd trimester pregnant women brought in with severe bleeding per vagina to the emergency department.
9. How do you prepare and keep the operation theatre ready for a case posted for emergency laparotomy?
10. Describe types of pneumothorax. How do you manage a case of pneumothorax?
11. How do you manage a case of accidental ingestion of a strong acid?
12. Write notes on a) Heimlich maneuver b) Triple maneuver?

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN MEDICAL IMAGING TECHNICIAN COURSE

PAPER III

MRI Techniques & Nuclear Medicine Technology

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. What is the principle of MRI? Write about Spin echo sequence?
2. Safety precautions in MRI.
3. Protocol and sequences for MRI of brain.
4. CT angiography versus MR Angiography.
5. Principle and use of PET – CT.
6. Use of Gamma camera in nuclear scan.
7. Protocol and sequences for MRI of knee.
8. What are MRI artefacts? Mention any five artefacts in MRI.
9. Protocol and sequences for MRI of spine.
10. Different types of coils in MRI.
11. MR Contrast.
12. Write in detail about MRCP and its advantages over ERCP.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN MEDICAL STERILIZATION MANAGEMENT AND
OPERATION THEATRE TECHNICIAN COURSE
PAPER III

Bio Medical Sciences, Physical Examinations & Cardiac Procedures

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

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1. Write about defibrillator.
 2. What is blood pressure? What are the methods of measurement?
 3. Write about echocardiogram.
 4. Describe about the circulatory system.
 5. Describe how to check pulse and respiratory rate during physical examination, including normal ranges.
 6. What is the role of operation theatre technicians during a preoperative check – up?
 7. Write about electro surgical cautery.
 8. Explain in detail about the operation table.
 9. Write in detail about Endo tracheal tubes.
 10. Write short notes on 1. Atropine 2. Noradrenaline
 11. Write in detail about the prevention of electric fire hazards in operation theatre.
 12. Write in detail about oxygen delivery devices.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE

PAPER III

Radiation Therapy Physics & Radiation Protection

Date - 28-12-2024

Time: 10 am to 1 pm (3hrs)

Total Marks:80

Answer any **TEN** Questions

All Questions carry equal marks

- 1.) Write about various fractionations and its usefulness in radiotherapy.
- 2.) Write in detail about Medical Linear accelerator and draw its diagram.
- 3.) Describe the steps in the treatment of carcinoma breast with radiotherapy.
- 4.) What is the role of a Radiation therapy technologist when Cobalt source is stuck in the Gantry?
- 5.) Write a note on concurrent chemo radiotherapy and its importance? Give examples.
- 6.) What are setup errors? Write about Systematic and Random errors.
- 7.) Explain about primary and secondary barriers.
- 8.) Write a note on (1) EPID (2) MLC
- 9.) What are the different immobilization devices used in radiotherapy? Describe in detail about Vaclok.
- 10.) Discuss briefly about (1) SRS (2) SRT
- 11.) Define GTV, CTV, PTV and OAR.
- 12.) What is the role of Radiation Therapy technologist in external beam therapy treatment room?

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025

DIPLOMA IN DENTAL TECHNICIAN COURSE

PAPER III

Oral Anatomy, Applied Physics & Chemistry

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Explain about the Functions of teeth.
2. Explain in detail the ligaments of TMJ
3. Explain in detail about the electric furnaces, heaters and Thermostats.
4. Explain the terms – Cusp, Ridge, Sulcus and Spillways
5. Explain in detail about Basic Anatomy of Oral Cavity.
6. Describe in detail the morphology of permanent maxillary central incisor.
7. Draw a labeled diagram of T.M Joint and explain parts in detail.
8. Write in detail the universal tooth numbering system for primary and permanent tooth.
9. Write in detail about cervical line, embrasure, Cusp, ridge and sulcus with diagram
10. Explain the muscles of facial expression.
11. Explain in detail about general characteristics of aromatic Substances.
12. What is the density and the specific gravity of given liquids and solids.

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025

DIPLOMA IN DENTAL HYGEINIST COURSE

PAPER III

General Pharmacology, Periodontics, Community Dentistry

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Classify Betalactam Antibiotics. Discuss the pharmacology of Amoxicillin.
2. Write about IV route o drug administration.
3. What is Biofilm and Name the bacteria present in dental plaque?
4. Classify Analgesics.
5. Describe the structure of Junctional epithelium and add notes on its role in healthy gingiva.
6. What is Autoclave?
7. Write about Local anesthetics.
8. CPITN probe.
9. Write about gingival index.
10. Theories of plaque formation and factors that contributes to plaque formation.
11. Enumerate the drugs that may cause gingival enlargement.
12. Interdental COL.

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025

DIPLOMA IN RADIOGRAPHIC ASSISTANT COURSE

PAPER III

Ultra Sound Imaging, Interventional Procedures & Angiography

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Ultrasound guided interventional procedures- Describe any two procedures.
2. Role of ultrasound in Pregnancy.
3. Sonomammography.
4. a) Piezoelectric effect b) Doppler effect.
5. CT Angiography of Brain- Procedure and advantages.
6. Colour Doppler of Lower Limbs (Arterial and Venous).
7. Discuss the principle and uses of Digital Subtraction Angiography (DSA).
8. Various Types of Ultrasound Probes used in Routine Practice.
9. Transrectal Ultrasound.
10. Advantages of Ultrasonography over CT Scan.
11. Bedside Ultrasonography and Its Uses.
12. Structure of Ultrasound Probe.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN CARDIOLOGY TECHNICIAN COURSE (DCARDIO)
PAPER III

Introduction of ICU and its Structure

Date - 16-07-2025
Time: 10 am to 1 pm (3hrs)
Answer any **TEN** Questions

Total Marks:80
All Questions carry equal marks

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1. Explain in detail about mobile ICU.
 2. Explain in detail about the ICU & its purpose.
 3. What are all Emergency medications used in ICU?
 4. Explain in detail about emergency equipment's in ICU.
 5. Describe the management of heart failure in ICCU?
 6. Explain about Cardiopulmonary resuscitation.
 7. Explain about primary angioplasty.
 8. How do you disinfect ICU?
 9. Diagnosis and management of Ventricular tachycardia.
 10. How do you monitor post PTCA patient in ICCU?
 11. Describe the role of ECG monitoring in ICCU.
 12. What is oxygen therapy? Write the methods used for oxygen therapy.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN CATHLAB TECHNICIAN COURSE (DCLT)
PAPER III
Cardio Vascular Physiology & Pulmonary Resuscitator

Date - 16-07-2025
Time: 10 am to 1 pm (3hrs)
Answer any **TEN** Questions

Total Marks:80
All Questions carry equal marks

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1. Describe the multi paramonitor.
 2. Describe the cardiac pulmonary resuscitation.
 3. Use of cardiac emergency drugs in Cath Lab.
 4. Fick's principle.
 5. Mean arterial pressure.
 6. Dampening and Ventricularization.
 7. Management of tachycardia during cardiac procedures.
 8. Describe the cardiac cycle.
 9. Describe the use of defibrillator.
 10. Describe the use of adenosine in cath lab.
 11. Describe the use of amiodarone in cath lab.
 12. Describe the management of air embolism.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN ECG TECHNICIAN COURSE (DECG)
PAPER III
Defibrillator – indications & Operations

Date - 16-07-2025
Time: 10 am to 1 pm (3hrs)
Answer any **TEN** Questions

Total Marks:80
All Questions carry equal marks

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1. Write about heart anatomy and physiology with Diagram.
 2. Write about various types of Ectopics & their management.
 3. Describe the atrial fibrillation with diagram and management.
 4. Draw diagram of ventricular tachycardia & its management.
 5. Describe the drug used in bradycardia / asystole.
 6. Describe about pacing and over dose pacing.
 7. Describe the equipment defibrillator & its uses in ICCU.
 8. Describe the role of ECG monitoring in ICCU.
 9. Maintenance of ECG machine and defibrillation in ICCU.
 10. What is TMT & Describe the TMT Procedure?
 11. What is the difference between synchronized cardio version and defibrillation in ICCU?
 12. What safety measure must be taken before, during and after defibrillation?

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025
DIPLOMA IN ANESTHESIA TECHNICIAN COURSE (DANS)

PAPER III

Cardio Vascular Physiology & Pulmonary Resuscitation

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Write in detail about coronary circulation.
2. Explain in detail about electrocardiogram ECG.
3. Write about defibrillator.
4. Write about peripheral Venous canulation.
5. What is blood pressure and how is it measured?
6. Write about drugs used during cardio pulmonary resuscitation (CPR).
7. Write about blood grouping and various types of blood groups.
8. Write in detail about triple airway maneuver.
9. Write about key differences between adult and pediatric CPR.
10. Write about AMBU bag.
11. Write about any two commonly used beta blockers intra operatively.
12. Write about any vasopressor used intra operatively.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS, July, 2025

DIPLOMA IN MPHA (MALE) COURSE
PAPER III

Environmental Sanitation, Hygiene

Date - 16-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Sources of noise and air pollution.
2. Biomedical hazards.
3. Methods used in the purification of water.
4. What are the various hygienic problems faced by adolescents?
5. Control measures according to national vector borne disease control programme.
6. What is the first response after an earthquake?
7. Measures taken to prevent food poisoning in hostels/canteens.
8. Write about pulse polio programme.
9. Census and its importance.
10. Family adoption initiative.
11. What are the various equipment's required in the treatment of organo-phosphorus poisoning?
12. Write about "Green Blanket Environment".
