

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

PAPER II

Microbiology, Parasitology & Microbes

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Explain procedure, principle, interpretation and application of Gram staining.
2. Write about collection, transportation & processing of Blood sample for Blood Culture.
3. Define sterilization and write principle of hot air oven and its uses.
4. Explain Standard precautions.
5. Laboratory diagnosis of enteric fever.
6. Write a short note on how biomedical waste is separated and treated.
7. Describe in detail Life Cycle and Laboratory diagnosis of malaria.
8. Write in detail about HIV virus.
9. Write principle, types and uses of ELISA.
10. Explain any 4 types of culture media with two examples each.
11. Write about Dermatophytes.
12. What is AST (Antibiotic Susceptibility Testing)?

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-July, 2025

DIPLOMA IN OPHTHALMIC ASSISTANT COURSE

PAPER II

Health Education, Community Ophthalmology, Common Eye Disorders

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Explain the role of ophthalmic assistants.
2. Discuss risk factors of Primary open angle glaucoma and management.
3. Discuss briefly about corneal ulcer, causes and treatment.
4. Types of Retinal detachment and management?
5. Discuss a) Chalazion b) Hypermature Cataract.
6. Explain about Vitamin A deficiency in detail, various manifestations and treatment.
7. Discuss about OSSN.
8. Discuss School Health Programmes.
9. Write about Proliferative Diabetic Retinopathy and complications.
10. Discuss about Vernal Keratoconjunctivitis.
11. Write about Blunt trauma.
12. Discuss about Dry Eye and management

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

DIPLOMA IN OPTOMETRY TECHNICIAN COURSE

PAPER II

Mechanical, Geometrical, Physiological Optics

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Explain principles of a) Refraction and b) Reflection.
2. Discuss Hypermetropia with management.
3. Role of Ophthalmic Technician's in School Health Programme.
4. Discuss about Spherical and Chromatic Aberrations.
5. Write in detail Dark room procedures?
6. Write about low vision aids in detail.
7. Discuss about Indirect Ophthalmoscopy.
8. Explain about Transposition with 7 examples.
9. Discuss a) Duochrome Test b) Jackson cross cylinder
10. Discuss Multifocal IOLs.
11. Write about various aberrations in detail.
12. Discuss about Aphakic lens and various problems associated.

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS- July, 2025

DIPLOMA IN DIALYSIS TECHNICIAN COURSE PAPER II

Pharmacology, Pathology & Dialysis Management

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Name the various medicines used in transplant patients for immunosuppression.
2. Describe how you will manage a patient with hypotension during dialysis.
3. What are the medicines routinely present in crash cart/emergency cart in dialysis unit?
4. Please write the names of all the investigations which are done for kidney failure patients.
5. Explain about peritoneal dialysis.
6. Explain the various parts of RO plant and describe the functions of each part.
7. What is CRRT and what are the types? Which patients are taken for CRTT?
8. What are the various alarms in the dialysis machine and what is their use?
9. How do you perform priming before dialysis?
10. Please explain the process of preparation of hemodialysis concentrate.
11. What are the precautions to prevent catheter related blood stream infections in the dialysis unit?
12. Describe what are the complications of AV fistula.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-July, 2025
DIPLOMA IN RESPIRATORY THERAPY TECHNICIAN COURSE
PAPER II

Patient Contact Techniques & Anaesthesiology

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Define the role of surfactant in neonatal respiratory distress syndrome.
2. Explain in detail about respiratory analgesics & stimulants.
3. Explain in detail about anaesthesiology.
4. Write in detail about different NIV modes.
5. Write in detail about Basic & Advanced life support.
6. Explain in detail about the different steps to be taken in operation theatre to prevent sepsis.
7. Write notes on a) Adrenaline b) Hydrocortisone c) Atropine d) Dopamine.
8. Write about pleural effusion & pleural tap.
9. What is OSA? Describe about polysomnography.
10. Describe about hypoxia & its causes.
11. Explain in detail about the Anti-oxidants & the purpose.
12. Define various methods of administration of salbutamol in ventilated patient.

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-July, 2025

DIPLOMA AUDIOMETRY TECHNICIAN COURSE

PAPER II

Speech and Language Development

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Total Marks: 80

Answer any **TEN** Questions

All Questions carry equal marks

1. Difference between speech therapy in case of congenital and acquired cases.
2. What are the exclusive therapy techniques used in stuttering and explain.
3. What is mean by mis articulation and how it is diagnosed?
4. What is mean by speech therapy?
5. What are the speech and language assessment?
6. Explain in detail about Physiology of Hearing.
7. What is mean by articulation and what are the techniques to be used to correct?
8. Which cases OAE test is recommended?
9. Difference between mixed and sensori neural hearing loss.
10. What is AVT? When it start after switch on explain in detail?
11. Explain the difference therapy techniques in congenital and acquired hearing loss.
12. Explain in detail about mixed hearing loss.

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-July, 2025

DIPLOMA IN EMERGENCY PARAMEDIC TECHNICIAN COURSE

PAPER II

Medical, Paediatric & Neonatal emergencies, Environmental Hazards,
Toxicology & ICU Care

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Define cardiac arrest. Discuss the causes and management of cardiac arrest.
2. Write detailed notes on neonatal resuscitation.
3. Discuss the management of heart stroke patient.
4. How do you assess and manage patient with history of consumption of unknown substances presented to ER in semiconscious state?
5. Describe about airway clearing techniques.
6. Define Hematemesis. What are the causes, investigations and management?
7. A 2-year old brought with continuous cry for one hour. How do you assess child status and initial management?
8. How will you assess chest pain in 50 year old male? Describe immediate management.
9. How do you assess patient brought in unconscious state aged about 50 years?
10. Discuss the pre-hospital management of Acute GE with dehydration.
11. Describe the pre-hospital treatment of seizures.
12. Describe the immediate management of patient with Diabetes with unconsciousness.

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-July, 2025

DIPLOMA IN MEDICAL IMAGIOLOGY TECHNICIAN COURSE PAPER II

Ultrasound & Colour Doppler

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. USG in acute abdominal trauma.
2. Write about Carotid Doppler.
3. Compare Arterial Doppler versus CT Angiography.
4. Types of ultra sound probes and their uses.
5. Advantages of bedside ultrasound.
6. Describe the structure of ultra sound probe with labeled diagram.
7. Preparing patient for a) Ultrasound of abdomen and b) for pelvis.
8. Ultrasound guided procedures.
9. What is a) Spiral Act and b) MDCT?
10. How will you perform CT scan of brain?
11. Write about a) piezoelectric effect b) Doppler effect.
12. Compare CT angiography and MR angiography and mention advantages and disadvantages of each.

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-JULY, 2025

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

PAPER II

PHARMACOLOGY, RESPIRATION & SOURCES OF INFECTIONS

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Total Marks:80

Answer any **TEN** Questions

All Questions carry equal marks

1. Write about the emergency drugs used in Operation theatre.
2. Describe the mechanism of breathing and gas exchange in the lungs.
3. What are the Antiseptic and Disinfectants? Give two examples of each used in Operation theatre.
4. Write in detail about CPR cardio pulmonary resuscitation steps and importance.
5. Write in detail about the pulseoximetry.
6. Explain WHO steps of hand washing and its importance.
7. How to dispose of used needles and sharps safely in an operation theatre?
8. Write in detail about Adrenaline and Atropine.
9. What is sterilization? and write in detail about ethylene oxide sterilization.
10. Write about the fumigation of the operation theatre.
11. Write in detail about the indications and complications of Blood transfusion.
12. How do you assist during spinal anesthesia?

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

DIPLOMA IN RADIOTHERAPY TECHNICIAN COURSE
PAPER II

General Physics, Radiography Techniques & Medical Imaging

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Write a note on TLD badge.
2. What is the characteristics curve of an x-ray film and explain the characteristics of an x-ray film?
3. What are the differences between KV CBCT and MV CBCT?
4. Explain in detail about mammography.
5. Describe in detail about simulation in radiotherapy.
6. Draw a neat and labeled diagram of Cobalt machine and explain in detail.
7. Explain in detail about Quality Assurance in Radiotherapy.
8. Write short note on 1) Photoelectric effect 2) Compton effect
3) Pair production 4) Coherent scattering.
9. Write short note on 1) IGRT 2) DIBH.
10. Describe in detail about Electron Beam Therapy.
11. What is Ionizing radiation? Write a note on alpha, beta and gamma Radiation.
12. Write a note on 1) PDD 2) Inverse Square Law.

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

DIPLOMA IN DENTAL TECHNICIAN COURSE
PAPER II

Dental Material & Basic Knowledge of Computer

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks: 80

All Questions carry equal marks

1. Explain about GYPSUM and its products.
2. Write in detail about Physical stage of Polymerization
3. Mention few noble metal alloys and write in detail about gold alloys.
4. Classify dental cement and write about Glass Ionomer cement in detail.
5. Explain in detail about the difference between dental stone and plaster.
6. Classify dental casting alloys and write notes on cobalt chrome alloy.
7. Write the difference between self curve, heat curve and light curve resin.
8. Write about Mercury Toxicity.
9. Classify Ceramics and composition. Describe all ceramic materials.
10. Describe the processing technique of heat curve denture base resins.
11. Explain about CAD CAM in dentistry.
12. Describe composite materials.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-July, 2025
DIPLOMA IN DENTAL HYGIENIST TECHNICIAN COURSE
PAPER II
Dental Material & Basic Knowledge of Computer

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Classify Elastomeric Impression material. Write in detail about Addition Silicon's.
2. Role of Dental hygienists in community health.
3. Chromium cobalt alloys used in dentistry. Explain composition, uses, advantages, and disadvantages.
4. Write in detail about Tarnish and Corrosion.
5. What are the cavity varnishes and its applications?
6. Enumerate about Dentifrices.
7. Classify gypsum products. Elaborate how they differ in physical structure, manufacture and manipulation in dental uses.
8. Write about role of Hygienist in community.
9. Write about 18-8 stainless steel.
10. Classify dental cements and write in detail about Glass ionomer cements.
11. Write about Base plate wax
12. Explain in detail about the modem and its uses.

TELANGANA PARAMEDICAL BOARD, HYDERABAD

COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-July, 2025

DIPLOMA IN RADIOGRAPHIC ASSISTANT TECHNICIAN COURSE

PAPER II

Radiographic Techniques

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Patient preparation and procedure of intravenous urography.
2. Write about a) Chest Radiograph Lateral View b) X Ray Foot Oblique View.
3. Write note on a) Shoulder Axial View b) Patella Skyline View.
4. Procedure of bedside chest radiography.
5. Effect of kV and mA on Radiograph
6. Procedure and Radiographic views in Barium Enema
7. What is X Ray Artifacts?
8. Ionic and non-Ionic Contrast Media.
9. Developing of x ray film in darkroom (Film screen Radiography).
10. Standard sizes of X-ray Films / cassettes.
11. What is MCUG?
12. Write about a) RGU B) Fistulography.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-July, 2025
DIPLOMA IN CARDIOLIGYTECHNICIAN COURSE
PAPER II
Hypothermia & Pharmacology

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. List of commonly used anti hypertension drugs, explain mechanism of ACE inhibitors.
2. Explain in detail about hypothermia & its management.
3. Explain in detail about the various cardiac profile tests.
4. Explain role of anticoagulants in ICCU.
5. Explain in detail about cardio pulmonary resuscitation.
6. What are thrombolytic drugs? Name two drugs & describe their uses in management of ACS (Acute Coronary Syndrome).
7. Explain in detail about the ECG in acute MI (Myocardial Infarction).
8. Explain Role of adenosine in cardiology.
9. Explain in detail about management of cardiogenic shock.
10. Describe treatment of unstable angina.
11. Explain in detail about coronary Angioplasty.
12. Describe the ECG changes seen in hypothermia. What are Osborne wave?

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

DIPLOMA IN CATHLAB TECHNICIAN COURSE
PAPER II

Devices used in Pacing, Pacemaker and its types

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Describe the procedure of temporary pacemaker implantation. What are the settings and modes used?
2. Describe the preparation of the patient for permanent pacemaker implantation.
3. Describe the cardiac cycle with a neat labeled diagram.
4. Explain the oximetry sampling.
5. Explain the right heart catheterization.
6. Explain the radiation hazard and the safety measures from radiation.
7. Describe the duty of cathlab technician in a cathlab.
8. Describe the antiarrhythmic drugs used in cath lab.
9. What is complete heart block? How do you manage complete heart block?
10. Describe the use of defibrillation in cath lab.
11. Arterial blood gas monitoring.
12. Different contrast agents used in cath lab.

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

DIPLOMA IN ECG TECHNICIAN COURSE
PAPER II

Cardio Vascular Pathology & Biochemistry of System

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Write notes on cardiac circulation.
2. Draw and label the internal structure of the heart.
3. What are the ECG changes in acute coronary syndrome.
4. What are cardiac enzymes explain the role of cardiac enzymes in diagnosing MI?
5. Write a note on pulseoximetry.
6. Explain about the MI pathophysiology myocardial infarction.
7. What are the emergency drugs used in ICCU?
8. Describe the diagnosis & management of anterior wall MI (Myocardial Infarction).
9. What is pacemakers its uses and types?
10. Write a note on 6 min walking test.
11. Describe in detail about CPR.
12. Write notes on complete heart block and management.

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

DIPLOMA IN ANAESTHESIA TECHNICIAN COURSE

PAPER II

Pharmacology & Equipment Management

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks:80

All Questions carry equal marks

1. Write about Bupivacaine.
2. Write in detail about nitrous & oxygen cylinders.
3. Write about IV induction agents.
4. Write about Jackson Rees circuit.
5. Write about multi parameter monitor.
6. Write about emergency drugs used in operation theatre.
7. How do you manage intra operative hypotension?
8. Write about commonly used pre medication drugs.
9. Write about Supraglottic airway devices.
10. Write about non depolarizing muscle relaxants.
11. Write about succinyl choline.
12. Write about pulse oximetry.

TELANGANA PARAMEDICAL BOARD, HYDERABAD
COMBINED PARAMEDICAL (Supplementary) EXAMINATIONS-July, 2025
DIPLOMA IN MULTIPURPOSE HEALTH ASSISTANT (MALE) COURSE
PAPER II
Health Education

Date - 15-07-2025

Time: 10 am to 1 pm (3hrs)

Answer any **TEN** Questions

Total Marks: 80

All Questions carry equal marks

1. What are the principles of health education?
2. What are the barriers of health communication?
3. Aim and objectives of NRHM (National Rural Health Mission).
4. What is the role of an MOHA in prevention of malaria?
5. Describe the uses of breast feeding.
6. Cancer registry.
7. Role and responsibilities of health workers.
8. What are the various health problems faced by smokers.
9. Diagnostics algorithm of TB according to NTEP?
10. What are the various physical barriers of contraception?
11. Mention the various intravenous fluids administered to severe diarrhoea cases.
12. Importance of physical activity and yoga in daily life.