

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

PATHOLOGY

PAPER – III

(Systemic Pathology – Cardio vascular system, respiratory system, gastro-intestinal system including liver & biliary tract, pancreas, renal system, male and female genital system and breast. Recent advances and applied pathology)

Q.P. Code: 1215

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams and flow charts wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the role of renal biopsy in the diagnosis of renal diseases.
2. Describe the pathogenesis and an update of pathology of chronic inflammatory bowel disease.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. List and describe each functional ovarian tumors.
4. Discuss predictive prognostic molecular markers in breast cancer.
5. Describe Primary biliary cirrhosis.
6. Discuss Testicular tumor markers.
7. Discuss Gleason scoring system of prostatic carcinoma.
8. Explain cardiomyopathy.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

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MICROBIOLOGY
PAPER – III
(Mycology and Virology)

Q.P. Code: 1219

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Enumerate the fungi causing opportunistic infections. Describe causative agents, pathogenesis and clinical features of Candidiasis. Write a note on laboratory diagnosis of Candidiasis.	(2+10+8)
2. Enumerate the sexually transmitted viral infections. Discuss structure and pathogenesis of Human Immunodeficiency virus. Write the laboratory diagnosis of HIV infection.	(2+10+8)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe the morphology and laboratory diagnosis of Hepatitis C virus.	
4. Describe the pathogenesis, complications and laboratory diagnosis of Dengue fever.	
5. Discuss non neural vaccines for Rabies.	
6. Describe the pathogenesis and laboratory diagnosis of Eumycetoma.	
7. Define & classify Dermatophytes. Describe the lesions caused & laboratory diagnosis of Dermatophytosis.	
8. Discuss the pathogenesis and laboratory diagnosis of Varicella zoster.	

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

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PHARMACOLOGY

PAPER – III

(Systemic Pharmacology – II: Endocrines, chemotherapy and immunopharmacology)

Q.P. Code: 1223

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the pharmacotherapy of Diabetes Mellitus. Enumerate the various screening methods for Diabetes Mellitus? (10+10)
2. Discuss the treatment and management of constipation. Add a note on drugs that cause constipation with suitable examples. (16+6)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Enumerate the role and functions of colony stimulating factors with suitable examples.
4. Discuss the salient features of pharmacotherapy of Osteoporosis.
5. Discuss the salient features of pharmacotherapy of Chloroquine resistant malaria.
6. Discuss the salient features of pharmacotherapy of Psoriasis.
7. Discuss the salient features of pharmacotherapy of Anti-emetic drugs.
8. Discuss the salient features of pharmacotherapy of Urinary Tract Infection.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

FORENSIC MEDICINE
(Laws in relation to Medical Profession)

PAPER – III

Q.P. Code: 1227

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Senthil and Kumari have been married for 12 years and have a 6-year old son. Senthil's father and grandfather died from cancer when they were in their early forties. Because of the strong family history of cancer Senthil wanted to have a genetic test to find out his level of risk. Although no clear diagnosis was possible, tests indicated that he was at risk of hereditary non-polyposis colorectal cancer. Now Senthil is feeling tired and unwell, and has a colonoscopy. The test reveals that he has inoperable bowel cancer. Kumara is concerned that their son might also be at risk of colon cancer when he is older and she wants him to be tested to see if he is at risk. Explain with reasons the following. (10+10)
 - a) Discuss should parents be allowed to have their children tested for adult-onset genetic conditions?
 - b) Discuss do children have a right to know or not to know their genetic risks?
2. A 13 year old sexual assault victim presents at your clinic and her parents are not available to provide consent for the examination and evidence collection procedure. What are the legal requirements? Name and discuss the relevant Acts. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss violence in sleep.
4. Explain defensive medicine and medical mal-practice.
5. Discuss the issue of consent pertaining to examination and treatment of minors.
6. Briefly describe the circumstances and medico legal implications of post-traumatic stress disorder (PTSD).
7. Discuss prevention of Children from sexual offences (POCSO) Act 2012. How does the (POCSO) Act define "aggravated sexual assault"?
8. Briefly discuss the medico-legal and diagnostic problems that may confront the forensic pathologist, in blood transfusion related death.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

COMMUNITY MEDICINE

PAPER – III

Q.P. Code: 1231

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Define disaster. Discuss structure and functioning of District Disaster Management Authority (DDMA) in India.
2. Discuss the causes of Low Birth Weight (LBW) babies. Discuss preventive measures undertaken by the government of India to reduce incidences of LBW babies in rural areas.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe emergency contraceptives.
4. Discuss demographic gap and its control.
5. Discuss silent features of National Family Health Survey (NFHS) V.
6. Compare Gerontology with Geriatrics.
7. Describe childhood disability and its prevention.
8. Discuss street children- problems and remedial measures.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

ANAESTHESIOLOGY
PAPER – III
(Clinical Practice of Anaesthesia)

Q.P. Code: 1235

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss perioperative preparation and management of patient with thyrotoxicosis and describe thyroid storm.
2. An eight-year-old child is brought with foreign body aspiration. He is anxious, dyspneic, sweating and having moderate cyanosis. Outline your plan of anaesthesia for foreign body removal.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss post tonsillectomy bleeding.
4. Regional anaesthesia and anticoagulant guideline.
5. Discharge criteria for outpatient anaesthesia.
6. Identification and management of cognitive dysfunction following anaesthesia in geriatric patients.
7. Goldman's Cardiac Risk Index.
8. Outline the different methods of pediatric pain relief.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

DERMATOLOGY, VENEREOLOGY AND LEPROSY

PAPER – III

(Venereology and Leprosy)

Q.P. Code: 1239

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss clinical features, diagnosis and management of type II Lepra Reaction. (7+6+7)
2. Discuss the aetiology, clinical features, diagnosis and management of Chancroid. (4+6+4+6)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe stigmata of congenital syphilis.
4. Aetiology, clinical features and management of Bacterial vaginosis.
5. Indications and side effects of Clofazimine.
6. Write an account of Immune Reconstitution syndrome.
7. Write an account of syndrome management of genital ulcer disease.
8. Write an account of MCR Footwear.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

GENERAL MEDICINE

PAPER – III

*(Central nervous system, respiratory system, immune system,
connective tissue and joint disorders)*

Q.P. Code: 1243

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the differential diagnosis in a 24 year old lady presenting with fever, polyarthralgia and rash over face since 2 months. Describe the investigations and management of SLE. (5+6+9)
2. Describe etiopathogenesis, clinical features and management of multi-system atrophy. (4+6+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Define status epilepticus and discuss the management of status epilepticus. (3+7)
4. Describe the etiology, enumerate the clinical features, investigations and outline management of reactive arthritis. (3+2+3+2)
5. Discuss the indications for bronchoalveolar lavage and treatment of MDR tuberculosis. (5+5)
6. Describe the etiology and outline the management of spontaneous pneumothorax. (5+5)
7. Define and discuss clinical features of Syringomyelia. (3+7)
8. Describe the etiology, discuss clinical features and management of sclerodactyly. (2+4+4)

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

PAEDIATRICS
PAPER – III
(General Paediatrics – II)

Q.P. Code: 1247

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Enumerate common causes of pyrexia of unknown origin in a 5 year old child. Discuss diagnostic approach to fever with rash.	(5+15)
2. Enlist functions of pancreas. Discuss etiology, pathogenesis, diagnosis & management of acute pancreatitis in children.	(3+3+4+5+5)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Discuss dosage, schedule and advantages of Newer vaccines.	
4. Pathophysiology and management of Hemolytic Uremic Syndrome (HUS).	(5+5)
5. Diagnosis and management of dengue hemorrhagic fever & dengue shock syndrome.	
6. Aetiology, clinical features and management of portal Hypertension in children.	(2+4+4)
7. Aetiology, clinical features and management of recurrent urinary tract infection in children.	(2+4+4)
8. Discuss the causes and approach of skeletal dysplasia in children.	

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

PSYCHIATRY

PAPER – III

(Psychiatric Theory and psychiatric specialties)

Q.P. Code: 1251

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss evaluation & management of 10 year old boy presenting with scholastic backwardness. (10+10)
2. What are the teratogenic effects of psychotropic drugs? Describe the precautions of prescribing them in pregnancy and lactation. (10+10)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Discuss MHCA-2017 in relation with minor age group.
4. Discuss criminal responsibility.
5. Discuss biofeedback therapy.
6. Discuss post pandemic (Covid-19) mental health issues.
7. Discuss obsessive compulsive spectrum disorders.
8. Discuss the major differences between ICD-10 and ICD-11.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

RADIO-DIAGNOSIS

PAPER – III

(Genitourinary, retroperitoneum, musculoskeletal system, Obstetrics & Gynaecology)

Q.P. Code: 1255

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Write in detail about carcinoma prostate and various imaging modalities. (10+10)
2. Role of imaging in hyper parathyroidism.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Role of CT scan in Renal calculus disease.
4. Ultrasound features of placenta previa.
5. What are Seronegative arthropathies. Mention their radiological features.
6. Role of MRI in Meniseal injuries.
7. Imaging features of retro-peritoneal tumors.
8. Role of ultrasound in ectopic pregnancy.

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

RESPIRATORY MEDICINE

PAPER – III

(Tuberculosis – Pulmonary and extra pulmonary, and General Medicine)

Q.P. Code: 1259

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Discuss the pathogenesis, clinical features and management of cutaneous tuberculosis.
2. What is PMDT? Describe diagnosis and management of Multidrug Resistant tuberculosis RNTCP.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Primary prophylaxis in T. B.
4. Collar-stud abscess.
5. Surgery in pulmonary tuberculosis.
6. Line Probe Assay.
7. Bedaquiline.
8. Endobronchial tuberculosis.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

**GENERAL SURGERY
PAPER – III**

Q.P. Code: 1263

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the etiology of colorectal cancer. How will you manage a case of obstructed carcinoma sigmoid colon.
2. Classification, presentation, diagnosis and management of Choledochal cyst.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Diagnosis and management of traumatic diaphragmatic hernia.
4. Surgical options for treatment of hemorrhoid. Anatomical basis of stapler hemorrhoidectomy.
5. a) Special peri-operative considerations in an infant scheduled for abdominal surgery.
b) Differential diagnosis of persistent vomiting in the newborn.
6. Classify the meshes used for repair of hernia. Discuss the anatomy of total extra peritoneal laparoscopic repair for inguinal hernia (TEP). Enumerate the complications of TEP.
7. Management of pseudopancreatic cyst.
8. Presentation and treatment of gastroesophageal reflux disease.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

OBSTETRICS AND GYNAECOLOGY

PAPER – III

(Clinical Gynaecology)

Q.P. Code: 1267

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. How will you evaluate the female partner for infertility?
2. Enumerate predisposing factors for carcinoma cervix. How will you detect the disease in early stage?

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Post-menopausal osteoporosis and its management.
4. Evaluator of a case of Hirsutism.
5. Medical management of leiomyoma of uterus.
6. Discuss the role of tumor markers in Gynecologic malignancies.
7. Hormonal Intra Uterine Contraceptive Device (IUCD).
8. Role of abdominal sling operations in genital prolapse.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

OPHTHALMOLOGY

PAPER – III

*(Ocular immunology, neuro-ophthalmology, paediatric ophthalmology,
systemic ophthalmology and recent advances)*

Q.P. Code: 1271

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Describe the clinical features and management of Giant cell Arteritis.
2. Classify dacryocystitis. Discuss the management of a case of congenital dacryocystitis.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Describe Horner's syndrome.
4. Discuss Orbital haemangioma.
5. Design essential blepharospasm.
6. Describe Kuhnt- Zymanowski procedure.
7. Orbital Echography.
8. Ocular Cysticercosis.

POST-GRADUATE DEGREE (M.S.) EXAMINATION – JULY 2023

Time: 3 Hours

Max. Marks: 100

ORTHOPAEDICS
PAPER – III
(General Orthopaedics)

Q.P. Code: 1275

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number	Marks
LONG ESSAY QUESTIONS:	2 X 20 = 40
1. Describe various stages of Tuberculosis Hip with diagnostic representation. Describe the management of fibrous ankylosis of the hip in young adult.	(10+10)
2. Define Shoulder Impingement syndrome. Describe in brief the clinical features and management of Rotator cuff muscle impingement.	(5+5+10)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe the clinical features and management of Giant cell tumour.	
4. Describe Candle bone disease, it's clinical features and management.	
5. Etiology and management of Phantom limb.	
6. Describe causes and management of proximal femoral focal deficiency.	
7. Describe Ganglion and its management.	
8. Discuss etiology, clinical features and management of DDH (Developmental Dysplasia Hip).	

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Time: 3 Hours

Max. Marks: 100

OTORHINOLARYNGOLOGY
PAPER – III
(*Rhinology including recent advances*)

Q.P. Code: 1279

Answers should be specific to the Questions asked.
Draw neat, labeled diagrams wherever necessary.
All questions are compulsory.

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Classify the fungal disease of nose and para-nasal sinuses. Discuss in detail the etiopathogenesis, clinical features and management of allergic fungal Rhino Sinusitis. (4+4+4+8)
2. Describe the etiopathogenesis, clinical features and management of CSF Rhinorrhea. (5+7+8)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Extrapolate the clinical features and management of Rhinosporidiosis.
4. Explain the theories of Juvenile Nasopharyngeal Angiofibroma.
5. Describe the clinical features and management of Choanal atresia.
6. Describe the indications and technique of open rhinoplasty.
7. Explain the indications and complications of Endoscopic optic nerve decompression.
8. Explain the different nasoseptal flaps.
