

POST-GRADUATE DEGREE (M.D.) EXAMINATION – JANUARY 2024

Time: 3 Hours

Max. Marks: 100

**PATHOLOGY
PAPER – IV**

*(Systemic Pathology – Central and peripheral nervous system, endocrine system,
Musculo-skeletal system, reticulo-endothelial system (lymph nodes, spleen and Thymus),
Dermatopathology and ophthalmic pathology, bone, joints and soft tissues.
Recent advances and applied pathology)*

Q.P. Code: 1216

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 recent changes in classification of Thyroid neoplasms. Write morphology of medullary Carcinoma of Thyroid.	(12+8)
2. Classify meningeal tumours and their microscopy. Describe in detail the diagnostic criteria.	(4+8+8)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Describe diagnosis of various types of Pemphigus.	
4. Classify bone tumors. Describe the morphology of cartilaginous tumors.	(4+6)
5. Discuss the role of IHC in diagnosis of soft tissue tumors.	
6. Classify Hodglini disease and their morphology. Add a note on markers used.	
7. Discuss interpretation of synovial biopsies.	
8. Discuss pathogenesis and morphology of Retinoblastoma.	

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GENERAL MEDICINE

PAPER – IV

*(Nephrology, endocrinology and metabolism, haematology, oncology,
dermatology and psychiatry, poisoning, environmental and occupational hazards)*

Q.P. Code: 1244

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. Etiopathogenesis, clinical features, investigations, treatment and complications of Nephrotic syndrome.	(4+4+4+4+4)
2. Discuss the role of parathormone in calcium metabolism. Write etiology clinical features, investigations and treatment of Primary hypoparathyroidism.	(4+4+4+4+4)
SHORT ESSAY QUESTIONS:	6 X 10 = 60
3. Write Clinical features and management of Psoriasis.	(5+5)
4. Types and management of Hemolytic Anemia's.	(5+5)
5. Clinical features and management of Pheochromocytoma.	(5+5)
6. Clinical features and management of AML.	(5+5)
7. Discuss the clinical features and management of Alcohol dependence.	(5+5)
8. Causes and management of Thrombocytopenia.	(5+5)

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RADIO-DIAGNOSIS

PAPER – IV

(CNS including head and neck, Interventional radiology and Recent advances)

Q.P. Code: 1256

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 various radiological and imaging investigations for localizing intra-ocular foreign body. (10+10)
2. Role of Triphasic imaging in solitary liver lesion.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Differences between multidetector CT and conventional CT.
4. Discuss Intra cranial calcifications.
5. Radiography of Paranasal Sinuses.
6. Role of interventional radiology in portal hypertension.
7. Advantages of PET – CT.
8. Mention classification and radiological findings of spinal cord tumors.

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**GENERAL SURGERY
PAPER – IV**

Q.P. Code: 1264

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 types, clinical features and management of nerve injury.
2. Describe the pathophysiology and management of Hydronephrosis.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Clinical features and management of extradural hematoma.
4. a) Premalignant conditions for penile cancer.
b) Management of 1 cm squamous cell carcinoma of glans penis extending to distal shaft.
5. Clinical features, complications and management of undescended testis.
6. Discuss the various methods of endoscopic treatment of benign prostatic enlargement.
7. Types, causes and principles of treatment of neurogenic bladder.
8. What are the indications and principles of amputation of a limb.

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OBSTETRICS AND GYNAECOLOGY

PAPER – IV
(Recent advances)

Q.P. Code: 1268

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

Question Number

Marks

LONG ESSAY QUESTIONS:

2 X 20 = 40

1. Role of Antimullerian hormone in Gynecological endocrinology.
2. Prediction and confirmation of Preterm labour and premature rupture of membranes. (5+15)

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. GnRh in Gynecology.
4. Imaging in Placenta Previa.
5. Stem cell therapy and cord blood banking.
6. Role of interventional radiology in obstetric.
7. F.T.S. (First trimester screening).
8. Role of Nutraceuticals in pregnancy.

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OPHTHALMOLOGY

PAPER – IV

*(Surgical ophthalmology, community ophthalmology,
Ophthalmic research and recent advances)*

Q.P. Code: 1272

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 retinopathy of prematurity, etiopathogenesis. Classification, clinical trials and management.
2. Discuss anterior ischemic optic neuropathy, etiopathogenesis, classification and management.

SHORT ESSAY QUESTIONS:

6 X 10 = 60

3. Apoptosis.
4. Complicated cataract.
5. Phaco Trabeculectomy.
6. Angioid streaks.
7. Macular hole.
8. VKH Syndrome.
