

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

**Time: 3 Hours**

**Max. Marks: 100**

**PATHOLOGY**

**PAPER – I**

*(General Pathology including environmental pathology / pathophysiology / immunopathology with recent advances and applied pathology )*

**Q.P. Code: 1213**

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 in detail microbial pathogenesis of Neoplasia.
2. Describe aetiopathogenesis of autoimmunity. What are the clinical and diagnostic criteria for diagnosis of Systemic Lupus Erythematosus. (10+10)

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss aetiopathogenesis of Thrombosis.
4. Discuss Pigments in health and disease.
5. Classify Granulomatous inflammation with examples. With briefly on pathogenesis of granuloma.
6. Discuss Gaucher's disease with respect to etiology, types with manifestations and its investigations.
7. Classify Leprosy. Discuss role of Immunity in different types of Leprosy.
8. Discuss role of Genes in Apoptosis.

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**PATHOLOGY**

**PAPER – II**

*(Hematology / Clinical Pathology / Cytology / Transfusion Medicine  
Recent Advances and applied pathology)*

**Q.P. Code: 1214**

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 in detail cytology of malignant breast tumours.
2. Discuss normal Red cell membrane structure and its defects.

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss Principles of PAP Smear.
4. Discuss cytology of non-neoplastic lesions of the lymph node.
5. Enumerate causes of Pancytopenia & discuss investigations in a case of pancytopenia. (4+6)
6. Describe collection and procedure for quantitative estimation of proteinuria & its application.
7. Discuss Blood component therapy.
8. Discuss investigations in a case of bleeding disorder.

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**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. Classify polyps of Intestine. Discuss role of genetics in **t.clory** cardinogenesis.
2. Classify Ovarian tumors. Discuss surface epithelial tumors.

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss etiopathogenesis of NASH.
4. Discuss Gleason's **scaving** & typing of prostate cancer & its recent advances.
5. Discuss pathology and recent advances in atherogenesis.
6. Discuss mechanism of glomerular injury in various glomerulonephritis.
7. Discuss predictive & prognostic **merhers of cancinoma** of breast.
8. Discuss pathogenesis & pathology of Silicosis.

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**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.

<b>Question Number</b>	<b>Marks</b>
<b>LONG ESSAY QUESTIONS:</b>	<b>2 X 20 = 40</b>
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)
<b>SHORT ESSAY QUESTIONS:</b>	<b>6 X 10 = 60</b>
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 <b>Hodglini</b> 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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