

**POST-GRADUATE DEGREE (M.D.) EXAMINATION – OCTOBER 2021**

**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. Discuss pathophysiology of apoptosis.
2. Discuss classification, pathogenesis and laboratory diagnosis of amyloidosis.

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Gene microarray in tumor diagnosis.
4. Role of cytokines in inflammation.
5. Fat embolism.
6. Phagocytosis.
7. Graft versus host reaction.
8. Karyotyping.

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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. Discuss role of FNAC in the diagnosis of lymphadenopathy.
2. Enumerate blood transfusion reactions. Discuss laboratory investigations in a case of transfusion reaction.

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Biphentotypic leukemia.
4. Discuss preparation and use of cell block technique.
5. Discuss disposal of biomedical waste.
6. Discuss laboratory diagnosis of Megaloblastic anemia.
7. Urine sediments.
8. Thin preparation cytology.

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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. Give an account of cavitory lesions of lung.
2. Describe pathogenesis and morphology of childhood renal tumors.

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Rapidly progressive glomerulonephritis.
4. Prognostic markers of carcinoma breast.
5. Discuss the pathogenesis of H. pylori related gastric diseases.
6. Cardiac markers in acute myocardial infarction.
7. Fibrolamellar hepatocellular carcinoma.
8. Gestational trophoblastic diseases.

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**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 pathology of hypoxic encephalopathy.
2. Discuss classification and pathology of bone tumors.

**SHORT ESSAY QUESTIONS:**

**6 X 10 = 60**

3. Discuss pathology of thymic epithelial tumors.
4. Discuss histopathological variants of Hodgkin's lymphoma.
5. Vesiculobullous lesions of skin.
6. Role of special techniques in diagnosis of spindle cell tumors.
7. Duchenn's muscular dystrophy.
8. Medullary carcinoma of thyroid.

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