



**All India Institute of Medical Sciences, Kalyani**  
**Second Professional MBBS Examination, February 2024**

**Time: 3 Hrs.**

**Pathology (Paper-II)**  
**(Systemic Pathology)**

**Marks: 100**

- Answer all questions.
- Answer the questions in the same serial order strictly.
- Illustrate your answers with well labelled diagram wherever necessary.
- Answer each section in a separate answer book.

**Section A**  
**(50 Marks)**

**Long answer question:**

**[1+2+3+4=10]**

1. A 18-yr-old female patient presented with fever, decreased urination and cola coloured urine. She had an episode of sore throat 2 months back.
  - a. What is the most probable diagnosis?
  - b. What are the urine examination findings in this case?
  - c. What are the pathological changes you see in the kidney in this disease?
  - d. Describe its pathogenesis.

**Write Short notes on:**

**[8×5=40]**

2. Enumerate the osteogenic bone tumors. Describe the gross and microscopic morphology of osteosarcoma.
3. Enumerate the aetiology of chronic hepatitis and describe the microscopic features of HBV hepatitis.
4. Briefly describe the aetio-pathogenesis of atherosclerosis. Draw a labelled diagram of an atheromatous plaque.
5. MEN syndromes
6. Hydatidiform mole
7. Krukenberg tumor.
8. Write about the pathogenesis and complications of Type 2 diabetes mellitus.
9. Meningioma



**Section B**  
**(50 Marks)**

**Long answer question:**

**[2+4+4=10]**

1. A 30-year-old female presented with a history of dyspareunia and post-coital bleeding. Per speculum examination revealed an unhealthy cervix which was irregular and bled on touch.
  - a. What is your probable diagnosis and why?
  - b. Discuss the etiopathogenesis of the diagnosis.
  - c. Discuss the screening methods for early detection of this condition

**Write Short notes on:**

**[8×5=40]**

2. Describe the etiopathogenesis of lobar pneumonia. Write its gross and microscopic features.
3. Enumerate the differences between Crohn's disease and Ulcerative colitis.
4. What are metabolic liver diseases? Describe the pathogenesis of fatty liver disease.
5. Malignant melanoma- types and diagnosis.
6. Hashimoto thyroiditis
7. Molecular classification of breast cancers
8. Enumerate the salivary gland neoplasms. Discuss the gross and microscopic findings in pleomorphic adenoma.
9. Classify the testicular tumors and describe the morphology of seminoma.

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