

All India Institute of Medical Sciences, Kalyani Second Professional MBBS Examination 2021

Time: 3 Hrs. Pathology (Paper-I) 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+5+2=10]

- 1. Describe neoplasia under the following headings:
 - a. Define neoplasia.
 - b. What are the differences between carcinoma and sarcoma?
 - c. Describe the mechanism of invasion and metastasis.
 - d. Role of molecular diagnostics and cytogenetics in diagnosis of cancer.

Write Short notes on:

[5x5=25]

- 2. Granulomatous inflammation
- 3. Differences between apoptosis and necrosis
- 4. Role of cytokines in inflammation.
- 5. Mutations
- 6. Diagnosis of Systemic Lupus Erythematosus (SLE)

Answer in brief:

[5x3=15]

- 7. P53 gene
- 8. Type III Hypersensitivity reaction
- 9. Neoplasm in HIV infection
- 10. Classification of amyloidosis
- 11. Differences between arterial thrombus and venous thrombus

SECTION - B (50 MARKS)

Long answer question:

- 1. Elderly man of 65 years complains of bone pain in spine. Punched out bony lesions are seen in the skull. ESR is very high. [1+2+2+5=10]
 - a. What is your provisional diagnosis?
 - b. Describe in short pathogenesis of this disease.
 - c. What are the clinical features?
 - d. How would you confirm your diagnosis by different investigations?

Write Short notes on:

[5x5=25]

- 2. Immune hemolytic anemia
- 3. Hemophilia
- 4. Molecular genetics of thalassemia
- 5. Classic Hodgkin lymphoma
- 6. Prognostic factors and FAB classification of AML (Acute myeloid leukemia)

Answer in brief:

[5x3=15]

- 7. Differences between leukemia and leukemoid reaction.
- 8. Diagnosis of hereditary spherocytosis.
- 9. Differential diagnosis of microcytic hypochromic anemia.
- 10. Peripheral blood and bone marrow findings in megaloblastic anemia.
- 11. Pathogenesis of sickle cell anemia.



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Time: 3 Hrs.

Pathology (Paper-II)

Marks: 100

INSTRUCTIONS:

- 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. A 46-year-old obese male presented with polyuria, polyphagia and polydipsia [1+2+4+3=10]
 - a. What is your provisional diagnosis?
 - b. How would you confirm your diagnosis as per WHO criteria?
 - c. Describe with labelled diagrams depicting the sequential morphological changes in kidney lesion.
 - d. Describe in brief acute metabolic complications of this disease.

Write Short notes on:

2	. Classification of cervical intraepithelial neoplasia and morphological changes	
	with a labelled diagram.	[5]
3	. Differences between fibroadenoma and phyllodes tumour of breast.	[5]
4	. Pathogenesis of rheumatoid arthritis with a flow chart and its diagnosis.	[5]
5	. Differences between Crohn's disease and ulcerative colitis.	[5]
6	. Pathogenesis of bronchial asthma with a diagram.	[5]
7	. Mature and immature teratoma of ovary.	[5]
8	. Risk factors and complications of peptic ulcer disease.	[5]
	. Portal hypertension: Its causes and complications with a labelled diagram.	[5]

SECTION - B (50 MARKS)

Long answer question:

- 1. A 9-year-old girl abruptly develops malaise, fever, nausea, oliguria and hematuria. [1+2+2+5=10]
 - a. What is your provisional diagnosis?
 - b. What are the aetiological factors and risk factors?
 - c. What is the pathogenesis of this disease?
 - d. Describe the gross and microscopic findings with labelled diagram of the affected organ.

Write Short notes on:

2. Origin of complete mole and partial mole with diagram. How would you	
confirm your diagnosis of hydatidiform mole?	[5]
3. Histologic and molecular subtypes of breast cancer.	[5]
4. Papillary carcinoma of thyroid.	[5]
5. Differences between pyogenic and tuberculous meningitis.	[5]
6. Pathogenesis and morphological changes of benign prostatic hyperplasia	with
a labelled diagram.	[5]
7. Multiple endocrine neoplasia.	[5]
8. Pathogenesis and morphological changes of osteosarcoma.	[5]
9. Classification and pathogenesis of gall stones.	[5]