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M.D. Pathology
EXAMINATION, April, 2014

Paper First

GENERAL PATHOLOGY & APPLIED PATHOLOGY

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Describe various morphologic patterns of acute inflammation. Discuss role of adhesion molecules in pathogenesis and as therapeutic agents in acute inflammation. [20]
2. Discuss laboratory diagnosis of chromosomal structural abnormalities. [20]
3. Write short notes on: [10x3]
 - a. Leishmaniasis –its clinical manifestations & pathogenesis.
 - b. Hypercoagulable states.
 - c. Graft V/s Host disease
4. Write in brief about: [10x3]
 - a. Stem Cells and repair
 - b. Paraneoplastic syndromes
 - c. Role of mitochondria in irreversible cell injury.

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M.D. Pathology
EXAMINATION, April, 2014
Paper Second
SYSTEMIC PATHOLOGY

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Draw labeled diagrams and flow charts wherever required.

1. Discuss-----

[10x10

- a. Small cell vasculitis.
- b. Ulcerative lesions in GIT.
- c. Osteogenic sarcoma and its variant.
- d. Prognostic and predictive markers of Breast Cancer
- e. Trophoblastic diseases.
- f. Premalignant lesions of skin.
- g. Discuss role of kidney biopsy in glomerular diseases.
- h. NASH
- i. Discuss pathogenesis, morphology and complications of bronchiectasis.
- j. Discuss grading of Astrocytomas and their prognostic implications.

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M.D. Pathology
EXAMINATION, April, 2014

Paper Third

HAEMATOLOGY, BLOOD BANKING, CLINICAL PATHOLOGY AND CYTOLOGY.

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Principles and uses of HPLC (High Performance Liquid Chromatography). [10]
2. Role of FNAC in male infertility. [10]
3. RARS –Refractory Anaemia with Ring Sideroblasts. [10]
4. Prenatal Diagnosis of Haemoglobinopathies. [10]
5. Chronic Myelomonocytic Leukemia. [10]
6. Role of Biomarkers in predicting prognosis of Breast Carcinoma. [10]
7. Discuss the different casts in Urine. [10]
8. Mismatched blood transfusion Reactions. [10]
9. Role of FNAC in Hodgkins Lymphoma. [10]
10. Principles & uses of Spectrophotometry. [10]

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**M.D. Pathology
EXAMINATION, April, 2014**

Paper Fourth

RECENT ADVANCES AND APPLIED ASPECTS.

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Draw well labeled diagrams & flow charts wherever necessary.

All questions carry equal marks.

[10x10

1. Discuss briefly about the new concepts in the pathology of inflammatory bowel disease.
2. Role of microsatellite instability in neoplasia.
3. Diagnosis of Childhood M.D.S.
4. Role of flowcytometry in acute leukemia, with special reference to Gating strategies.
5. Discuss the role of cytokeratin immunohistochemistry in diagnostic tumour pathology.
6. Fanconi Anemia.
7. Quality assessment of automated electronic cell counters.
8. Non small cell lung carcinoma.
9. Discuss the role of HPV in occurrence of malignancies.
10. Role of artificial neural network in diagnostic cytology.
