

MD[Pathology]

BF/2009/05

Pathophysiology & General Principles of Pathology including applied Pathology [Paper-I]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions. All question carry equal marks.

1. Discuss Proteomics in Cancer.
 2. Describe the principles and applications of image analyzer and quantitative morphometry in border line lesions.
 3. Discuss Atypical mycobacterial diseases.
 4. Describe sources and applications of Stem cells in human disease.
 5. Discuss pathophysiology of neurological manifestation in HIV/ AIDS.
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Immunopathology, Molecular Biology, Cytogenetics and Experimental Pathology including cancer research [Paper-II]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. What are the mechanisms involved in graft rejection? Describe the morphology of renal transplant rejection. [35]

2. **Briefly comment on:** [30]
 - a. Immunologic tolerance.
 - b. Type I hypersensitivity reaction.

3. Role of Tumour markers in diagnosis and disease monitoring. [35]

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Histo-Pathology-Cytology including Recent Advances in the concerned topics [Paper-III]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Classify Carcinoma breast and discuss the prognostic factors. [25]
2. **Write short notes on:** [25]
 - a. Gastro Intestinal Stromal Tumors.
 - b. Confocal microscopy.
3. Discuss the role of Immunocytochemistry in malignant round cell tumors. [25]
4. Describe the role of Immunity in Glomerulonephritis. [25]

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Haematology, Immunoheamatology & Blood Transfusion with recent advances in the concerned topics [Paper-IV]

Time : 3 Hours

M.M.: 100

Note: Attempt all questions.

1. Discuss Disseminated intravascular coagulation - Current concepts of pathogenesis and management. [25]

 2. **Write briefly on:** [12¹/₂+12¹/₂]
 - a. Hemolytic Uremic syndrome.
 - b. Schilling test.

 3. **Discuss briefly:** [12¹/₂+12¹/₂]
 - a. Umbilical Cord blood transfusion – Current status.
 - b. Sickle cell anaemia.

 4. **Write briefly:** [12¹/₂+12¹/₂]
 - a. Laboratory aspects in Hemolytic anaemias – An overview.
 - b. Minimal Residual Disease[MRD] detection in CML.
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