



होमी भाभा राष्ट्रीय संस्थान  
Homi Bhabha National Institute

(Tata Memorial Centre)

Dr. Ernest Borges Marg, Parel Mumbai - 400 012

Theory Examination - MD Pathology

May - June 2014

Paper I

Total duration : 3 Hours

Total Marks : 100

1. Discuss extracellular matrix components and their role in wound healing. (1x25=25)
2. Discuss liquid based cytology for cervical screening. (1x25=25)
3. Solve any five questions out of seven. (5x10=50)
  - a. Free radicals
  - b. FISH
  - c. Leucocyte function defects
  - d. Role of endothelium in hemostasis
  - e. Genomic imprinting
  - f. Phenylketonuria
  - g. Diet and cancer



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Paper II

Total duration : 3 Hours

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1. Discuss molecular genetics of soft tissue tumors. (1x25=25)
2. Discuss etiopathogenesis, pathology and complications of diabetic nephropathy. (1x25=25)
3. Solve any five questions out of seven. (5x10=50)
  - a. Autoimmune hepatitis
  - b. Histopathology of bullous lesions of skin
  - c. Current concepts in adenocarcinoma of lung
  - d. Demyelinating diseases of CNS
  - e. Tumor like lesions of bone
  - f. Intestinal nephritis
  - g. Pathology of vascular interventions



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**Paper III**

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Total Marks : 100

1. Discuss laboratory investigations in case of bleeding disorder. (1x25=25)
2. Discuss pseudo and spurious results on hematology analyzers. (1x25=25)
3. Solve any five questions out of seven. (5x10=50)
  - a. Cryoprecipitate
  - b. Umbilical cord blood banking
  - c. POEMS syndrome
  - d. Cytogenetics and molecular genetics of multiple myeloma
  - e. Minimal residual disease and its detection
  - f. <sup>6</sup>GPD deficiency
  - g. Graft versus leukemia effect



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**Paper IV**

**Total duration : 3 Hours**

**Total Marks : 100**

1. Clarify fungal diseases in man. Discuss the histopathological diagnosis of fungal lesions. (1x25=25)
2. Discuss the predictive and prognostic molecular markers breast cancer. (1x25=25)
3. Solve any five questions out of seven. (5x10=50)
  - a. Casts in urine
  - b. Microalbuminuria
  - c. Synovial fluid examination
  - d. Laboratory safety procedures
  - e. Thromboelastography
  - f. Point of care testing
  - g. Enzyme estimation in myocardial infarction