

Reg. No.

MANIPAL UNIVERSITY

MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING IMMUNOPATHOLOGY

Monday, April 05, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ Answer ALL the questions.
- ✍ All questions carry equal marks.

1. Discuss the mechanisms of apoptosis.
2. Discuss recent and revised criteria for classification of SLE and the multisystem morphology of the disease.
3. Discuss the role of tumour suppressor genes in the human neoplasms.
4. Write short notes on:
 - 4A. Gaucher disease.
 - 4B. Chemokines.
 - 4C. Vascular endothelial growth factor.
 - 4D. Radiation carcinogenesis.

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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Tuesday, April 06, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ All questions carry equal marks.

1. Discuss myofibroblastic proliferations mimicking soft tissue sarcomas.
2. Discuss cystic diseases of the kidney.
3. Discuss update on pathogenesis and pathology of chronic hepatitis.
4. Write short notes on:
 - 4A. Celiac disease (Gluten sensitive enteropathy)
 - 4B. Wegener's granulomatosis
 - 4C. Rosai- Dorfman disease
 - 4D. Cerebral amyloid angiopathy

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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER III: ONCOLOGY

Wednesday, April 07, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **All questions carry equal marks.**

1. Discuss the primary renal tumours of childhood.
2. Discuss the incidence, staging and morphology of squamous cell carcinoma of larynx.
3. Discuss the endocrine neoplasms of pancreas and the associated clinical syndromes.
4. **Write short notes on:**
 - 4A. Microsatellite instability in human cancer.
 - 4B. Inflammatory myofibroblastic tumour.
 - 4C. Dysembryoplastic neuroepithelial tumour.
 - 4D. Minimal deviation melanoma.

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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2010

SUBJECT: PAPER IV: HAEMATOLOGY, CLINICAL PATHOLOGY AND CYTOLOGY

Thursday, April 08, 2010

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **All questions carry equal marks.**

1. Discuss the diagnostic methods for investigating iron metabolism.
2. Discuss the immunological classification of childhood acute lymphoblastic leukemia, diagnostic methods and risk classification.
3. Discuss the role of HPV in precursor lesions and cancer of the uterine cervix.
4. **Write short notes on:**
 - 4A. Colony stimulating factors and uses.
 - 4B. Paediatric myelodysplasia.
 - 4C. Microhematuria.
 - 4D. Pelger-Huet anomaly.

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