

Reg. No.

MANIPAL UNIVERSITY

MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2012

SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING IMMUNOPATHOLOGY

Monday, April 02, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **All questions carry equal marks.**

1. Discuss the role of endothelial cells in health and disease.
2. Discuss the immunopathology of HIV infection.
3. Discuss the role of recombinant DNA technology in pathology.
4. **Write short notes on:**
 - 4A. Cytokines
 - 4B. Niemann-Pick disease
 - 4C. Mechanism of metastasis
 - 4D. EBV-associated diseases



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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2012

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Tuesday, April 03, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

All questions carry equal marks.

1. Discuss the etiopathogenesis of cholelithiasis.
2. Mention the aetiology of viral hepatitis. Discuss the laboratory diagnosis in hepatotropic virus associated hepatitis.
3. Discuss the diagnosis of cutaneous blistering diseases by light microscopy.
4. **Write short notes on:**
 - 4A. Polyarteritis nodosa
 - 4B. Acute tubular necrosis
 - 4C. Microscopic colitis
 - 4D. Pathology of cystic lung lesions in childhood



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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2012

SUBJECT: PAPER III: ONCOLOGY

Wednesday, April 04, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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

1. Describe malignant mesenchymal tumours with epithelioid features. Discuss the role of immunohistochemistry and electronmicroscopy in their differential diagnosis.
2. Discuss the recent advances in the pathology of urothelial neoplasms.
3. Discuss the pathology of neuroendocrine tumours of the lung.
4. **Write short notes on:**
 - 4A. Oligodendroglioma variants
 - 4B. Keratoacanthoma
 - 4C. NK cell lymphoma
 - 4D. Epithelioid trophoblastic tumor



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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2012

SUBJECT: PAPER IV: HAEMATOLOGY, CLINICAL PATHOLOGY AND CYTOLOGY

Thursday, April 05, 2012

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **All questions carry equal marks.**

1. Discuss the recent advances in the classification and diagnosis of acute leukaemias.
2. Discuss the role of automation in cytology.
3. Discuss the laboratory investigations to be done in a patient suspected to have a coagulation disorder.
4. **Write short notes on:**
 - 4A. Red cell distribution width
 - 4B. Artificial blood
 - 4C. Microwaves in tissue processing
 - 4D. Specific gravity of urine

