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MANIPAL UNIVERSITY

MD (PATHOLOGY) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER I: GENERAL PATHOLOGY INCLUDING IMMUNOPATHOLOGY

Wednesday, April 01, 2009

Time: 14:00 - 17:00 Hrs.

- Answer ALL the questions.
- & ALL questions carry equal marks.
- 1. Discuss role of complement in health and disease.
- Discuss the biochemical mechanisms that are responsible for cell injury induced by different stimuli.
- 3. Discuss the role of growth factors in health and disease.
- 4. Write short notes on:
- 4A. Modifications of PCR and other amplification techniques.
- 4B. Role of Hereditary factors predisposing to thrombosis.
- 4C. Metastatic signature.
- 4D. Tumor immunity.

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MD (PATHOLOGY) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER II: SYSTEMIC PATHOLOGY

Thursday, April 02, 2009

Time: 14:00 - 17:00 Hrs.

- Answer ALL the questions.
- Mention the types of vasculitis. Discuss the pathology and differential diagnosis of granulomatous vasculitidis.
- 2. Discuss the aetiopathogenesis and pathology of pneumonia in an immunocompromised host.
- 3. Discuss the pathology of neonatal cholestasis.
- 4. Write short notes on:
- 4A. Pathogenesis of complications of Diabetes mellitus.
- 4B. Pathology of alpha 1 antitrypsin deficiency diseases.
- 4C. Renal lesions in SLE.
- 4D. Cutaneous tuberculosis.

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MD (PATHOLOGY) DEGREE EXAMINATION – APRIL 2009

SUBJECT: PAPER III: ONCOLOGY

Friday, April 03, 2009

Time: 14:00 - 17:00 Hrs.

- Answer ALL the questions.
- Discuss the pathology of germ cell tumors of the testis.
- Classify and discuss the pathology of Hodgkin lymphoma.
- 3. Discuss gastrointestinal neuroendocrine tumours.
- Write short notes on:
- 4A. Medullary carcinoma of the thyroid
- 4B. Liposarcoma
- 4C. Borderline ovarian tumors
- 4D. Cholangiocarcinoma

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MD (PATHOLOGY) DEGREE EXAMINATION - APRIL 2009

SUBJECT: PAPER IV: HAEMATOLOGY, CLINICAL PATHOLOGY AND CYTOLOGY

Saturday, April 04, 2009

Time: 14:00 - 17:00 Hrs.

- Answer ALL the questions.
- & ALL questions carry equal marks.
- Discuss the role of synovial fluid analysis in health and disease.
- Discuss the role of cytology in the diagnosis of breast lesions.
- 3. Discuss the classification of acute leukemia.
- 4. Write short notes on:
- 4A. Inhibitors of Coagulation.
- 4B. Laboratory diagnosis of megaloblastic anemia.
- Diagnosis of myelodysplastic syndromes.
- 4D. Bone marrow stem cells.