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## MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE

Monday, April 04, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**Answer ALL the questions.**

1. Describe the innervations of the urinary bladder with presentations of various lesions.  
(20 marks)
  
2. Classify immunity, describe the cell mediated immunity and explain immunomodulators.  
(20 marks)
  
3. **Write short notes on:**
  - 3A. Oxygen dissociation curve in health and disease
  - 3B. Ventilation perfusion mismatch
  - 3C. Hypercalcaemia
  - 3D. Clinical relevance of counter current mechanism in kidneys
  - 3E. Therapeutic modification of cardiac output
  - 3F. Neuromuscular junction in various diseases

(10×6 = 60 marks)



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## MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER II: NEUROLOGY, RESPIRATORY DISEASES, BLOOD DISORDERS  
AND ENDOCRINOLOGY

Tuesday, April 05, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

*✍* Answer ALL the questions.

1. Discuss the classification of malignant neoplasms of lung. How will you investigate a suspected case of lung cancer?

(20 marks)

2. Classify epilepsy. Describe clinical features and management of Idiopathic Epilepsy.

(20 marks)

3. Write short notes on:

3A. Von Willebrand's disease

3B. Pheochromocytoma

3C. T<sub>3</sub> Toxicosis

3D. Pituitary Apoplexy

3E. Sideroblastic Anemia

3F. BOOP

(10×6 = 60 marks)



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## MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER III: CARDIOVASCULAR DISEASE, GASTROENTEROLOGY,  
COLLAGEN DISEASE, GENETICS, IMMUNOLOGY AND RENAL DISORDER

Wednesday, April 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Discuss the neuro-hormonal responses in heart failure. Add a note on role of beta blockers in heart failure.

(20 marks)

2. Discuss the renal complications of diabetes mellitus.

(20 marks)

3. Write short notes on:

3A. Palpitations

3B. Barrett's Esophagus

3C. Radiological features of Ankylosing spondylitis

3D. Genetic mutation

3E. Measurement of GFR in clinical setting

3F. Non alcoholic steatohepatitis

(10×6 = 60 marks)



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## MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2011

SUBJECT: PAPER IV: INFECTIOUS DISEASE, TROPICAL MEDICINE, PSYCHIATRY  
AND RECENT ADVANCES

Thursday, April 07, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Discuss in detail pulmonary manifestations of HIV positive patient.  
(20 marks)
  
2. Discuss approach to diagnosis and management of MDR tuberculosis.  
(20 marks)
  
3. **Write short notes on:**
  - 3A. Filariasis
  - 3B. Post- traumatic stress disorder
  - 3C. Entry inhibitors in treatment of HIV
  - 3D. Incretin analogues and DPP-IV inhibitors
  - 3E. Phobic disorders
  - 3F. Tigecycline

(10×6 = 60 marks)

