

MANIPAL UNIVERSITY**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2015****SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE**

Tuesday, October 06, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer all the questions.**
- ✍ **Write neatly, legibly and to the point.**
- ✍ **Draw line diagrams, flow charts and diagrams wherever appropriate.**
- ✍ **Use margin space only to write question number as in question paper.**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer.**

✍ Long Essay:

1. Describe the normal acid base homeostasis. How do you approach a case of metabolic acidosis?

(15 marks)

2. Describe the endothelial cell function in health and disease.

(15 marks)

3. Write short essays on:

3A. Pulmonary function testing

3B. Neurologic control of micturition

3C. Apolipoproteins and their significance in various lipid disorders

3D. Vitamin D metabolism

3E. Mechanisms of cardiac arrhythmias

3F. Role of co receptors in HIV pathogenesis

3G. Use of PET scan in medical disorders

3H. Congenital adrenal hyperplasia

3I. Assessment of beta cell function

3J. Pulmonary alveolar arterial oxygen gradient

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2015**

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

Wednesday, October 07, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer all the questions.**
- ✍ **Write neatly, legibly and to the point.**
- ✍ **Draw line diagrams, flow charts and diagrams wherever appropriate.**
- ✍ **Use margin space only to write question number as in question paper.**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer.**

✍ Long Essays:

1. Discuss clinical features and management of interstitial lung disease. (15 marks)
2. Vitamin D metabolism in health and disease (15 marks)
3. **Write short notes on:**
 - 3A. Rapid diagnosis of meningitis
 - 3B. Myasthenic crisis
 - 3C. Steroid resistant asthma
 - 3D. Myelodysplastic syndrome
 - 3E. Role of Dopamine based drugs in medicine
 - 3F. Axonal Neuropathies
 - 3G. Stem cell transplantation
 - 3H. Carotid stenosis
 - 3I. Euglycaemic ketoacidosis
 - 3J. CETP inhibitors

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2015****SUBJECT: PAPER III: CARDIOVASCULAR DISEASE, GASTROENTEROLOGY,
COLLAGEN DISEASES, GENETICS, IMMUNOLOGY AND RENAL DISORDERS**

Thursday, October 08, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer all the questions.**
- ✍ **Write neatly, legibly and to the point.**
- ✍ **Draw line diagrams, flow charts and diagrams wherever appropriate.**
- ✍ **Use margin space only to write question number as in question paper.**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer.**

✍ Long Essays:

1. Classify vasculitis syndromes. Outline clinical features and investigations of small vessel vasculitis.
(15 marks)
2. A 45 year male chronic alcoholic presents with recurrent abdominal pain. His examination reveals jaundice and left sided pleural effusion. Mention the most probable diagnosis. Discuss further evaluation and treatment of this patient.
(15 marks)

3: Short Essays:

- 3A. Adult Still's disease
- 3B. Clinical characteristics of osteoarthritis and causes of early onset osteoarthritis
- 3C. Evaluation of a patient with gastrointestinal blood loss of obscure origin
- 3D. Classification and principles of management of chronic kidney disease
- 3E. Discuss gene therapy with examples
- 3F. Immunoglobulin therapy-indications and risks
- 3G. Diagnosis and treatment of sarcoidosis
- 3H. PCR in medicine
- 3I. Current management of NSTEMI
- 3J. Tropical sprue

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2015****SUBJECT: PAPER IV: INFECTIOUS DISEASE, TROPICAL MEDICINE, PSYCHIATRY
AND RECENT ADVANCES**

Friday, October 09, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **Answer ALL the questions.**
- ✍ **Write neatly, legibly and to the point**
- ✍ **Draw line diagrams, flow charts and diagrams wherever appropriate**
- ✍ **Use margin space only to write question number as in question paper**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer.**

✍ Long Essays:

1. Define severe malaria. Discuss the pathogenesis, clinical features and management of cerebral malaria.

(15 marks)

2. Discuss the clinical features, complications, laboratory investigations and management of rhinocerebral mucormycosis.

(15 marks)

3. Write short notes on:

- 3A. MRSA infections
- 3B. Neuroleptic Malignant Syndrome
- 3C. Carbon monoxide poisoning
- 3D. Post exposure prophylaxis in HIV
- 3E. Hashimoto's encephalopathy
- 3F. Malaria Vaccine
- 3G. Eosinophilic meningitis
- 3H. Nonalbicans candida infection
- 3I. Rapid diagnostic tests for malaria
- 3J. Ventilator Associated Pneumonia

(7 marks × 10 = 70 marks)

