

MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2015

SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE

Wednesday, April 01, 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. Discuss your approach to a patient with metabolic acidosis. Outline the pathophysiology and management of diabetic ketoacidosis. (15 marks)
2. Explain pathways of pain transmission and modulation. Outline the mechanism, clinical features and management of migraine. (15 marks)
3. **Write short note on:**
- 3A. Mechanism of dyspnea
- 3B. Peroxisome proliferator activated receptor gamma and alpha
- 3C. Mechanisms of antibiotic resistance
- 3D. Uric acid in health and disease
- 3E. Angiogenesis
- 3F. Gastroduodenal mucosal defense
- 3G. Genetic Counseling
- 3H. Circulation of cerebrospinal fluid and hydrocephalus
- 3I. Platelet dysfunction syndromes
- 3J. Intravenous Immunoglobulin

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2015

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

Thursday, April 02, 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. Define pulmonary hypertension. How do you classify it? Discuss its pathophysiology, clinical features and management.

(15 marks)

2. Discuss the nutritional disorders of the nervous system.

(15 marks)

3. Write short notes on:

- 3A. Dyslipidemia in diabetes mellitus
- 3B. Transfusion medicine
- 3C. Nonfunctioning pituitary mass
- 3D. Progressive multifocal leucoencephalopathy
- 3E. Current therapy of Chronic myeloid leukemia
- 3F. Ventilator associated pneumonia
- 3G. Anti phospholipid antibody syndrome (APLA)
- 3H. Hirsutism
- 3I. Solitary pulmonary nodule
- 3J. Ocular signs in comatose patients

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2015

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

Saturday, April 04, 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.**

1. A 40 year old female is admitted for evaluation chronic diarrhea for 3 months. How do you evaluate this lady. Discuss etiopathogenesis and management of tropical sprue. (15 marks)

2. Discuss in detail etiology clinical manifestations & management of heart blocks. (15 marks)

3. **Write short notes on:**

- 3A. Capsule endoscopy
- 3B. Barrett's esophagus
- 3C. Peripartum cardiomyopathy
- 3D. Monogenic Mendelian disorders
- 3E. Churg Strauss syndrome
- 3F. Organ specific autoimmune disorders
- 3G. Cardiorenal syndromes
- 3H. Riociguat in pulmonary hypertension
- 3I. Current indications for bone marrow transplantation
- 3J. Cytogenetic analysis

(7 marks × 10 = 70 marks)



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

Monday, April 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. Natural history and pathogenesis of human immunodeficiency viral infection. Indications and principles of antiretroviral therapy (ART) in treatment naive patients.

(15 marks)

2. Write the pathophysiology and etiology of septic shock. Describe in detail management strategies of septic shock.

(15 marks)

3. Write short notes on:

- 3A. Hand hygiene
- 3B. Carbapenemases
- 3C. Newer antiplatelet drugs
- 3D. Electroconvulsive therapy (ECT)
- 3E. Gene therapy for vascular disease
- 3F. Vitamin D deficiency and diabetes
- 3G. Teriparatide
- 3H. Candidemia
- 3I. Management of dog bite
- 3J. Ruxolitinib

(7 marks × 10 = 70 marks)

