

MANIPAL UNIVERSITY**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2017****SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE**

Tuesday, October 03, 2017

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 the normal physiology of respiration. Classify respiratory failures and outline the principles and settings of mechanical ventilation in various types of respiratory failures.
(15 marks)
2. Discuss the role of the kidney in maintaining normal blood chemistry. Explain the biochemical alterations in chronic renal failure and outline the current treatment of the same.
(15 marks)

3. Write Short notes:

- 3A. Ferritin in health and disease
- 3B. Monoclonal antibodies in medicine
- 3C. Toll like receptors
- 3D. Role of counter regulatory hormones in hypoglycemia
- 3E. RAAS based drugs
- 3F. Endocrine function of adipose tissue
- 3G. Cardio renal syndrome
- 3H. Telavancin
- 3I. Cellular basis of steroid action
- 3J. Channelopathies

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2017**

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

Wednesday, October 04, 2017

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 the question paper.**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer.**

✍ Long Essays:

1. Classify anaemias. Discuss the genetics, clinical presentation, complications and management of thalassemia major.

(15 marks)

2. Mention briefly the microscopic structure of the suprarenal gland and the hormones secreted by it. Describe the aetiology, pathophysiology, clinical features and management of adrenal apoplexy.

(15 marks)

3. Short notes:

- 3A. Vocal fold dysfunction
- 3B. Right middle lobe syndrome
- 3C. Antithrombotic therapy
- 3D. Non metastatic neurological complications of malignant disease
- 3E. Role of Galectin -3 in bronchial asthma
- 3F. Oral immunotherapy
- 3G. Sheehan's syndrome
- 3H. Pseudohypoglycemia
- 3I. Neurological complication of diabetes mellitus and its management
- 3J. Causes and management of haemochromatosis

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY

MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2017

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

Thursday, October 05, 2017

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. Write the causes of Heart failure. Discuss the pathogenesis, clinical features, management of Left heart failure. (15 marks)

2. A 25 years old young female admitted with history of joint pain and oral ulcers for 3 weeks duration and examination revealed moderate pedal edema. How do you approach and manage this person? (15 marks)

3. Short notes on:

- 3A. HIV associated nephropathy
- 3B. Behcet's syndrome
- 3C. Management of HBe Ag negative chronic Hepatitis B infection
- 3D. Infectious esophagitis in HIV
- 3E. Continuous renal replacement therapy (CRRT)
- 3F. Human genome project
- 3G. Nephrogenic Systemic fibrosis
- 3H. H. Pylori infection
- 3I. Hepatic transplantation
- 3J. Fanconi's syndrome

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2017**
SUBJECT: PAPER IV: INFECTIOUS DISEASE, TROPICAL MEDICINE, PSYCHIATRY
AND RECENT ADVANCES

Friday, October 06, 2017

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 life cycle of Malaria and characteristic feature of plasmodium species infecting humans. Mention clinical features of severe falciparum malaria and drug regimen for treatment in pregnant patient of malaria. Write short note on artesunate resistance.

(15 marks)

2. While drawing blood from HIV positive patient, Intern sustained needle stick injury. Give your opinion regarding further treatment for the Intern. Write note on occupational transmission of HIV. Mention about Post exposure prophylaxis.

(15 marks)

3. Short Notes:

- 3A. New guidelines for management of hypertension JNC-8.
- 3B. Role of beta blocker in management of chronic obstructive lung disease.
- 3C. Drug Canaglifozin
- 3D. When to suspect Rickettsial disease and discuss its management.
- 3E. Post traumatic stress disorder
- 3F. Nicotine Addiction
- 3G. TDRTB
- 3H. Altitude Illness- acute mountain illness and cerebral edema.
- 3I. Indication for antivenom in snake bite. Mention about dosage and its complication.
- 3J. Loiasis

(7 marks × 10= 70 marks)

