

MANIPAL ACADEMY OF HIGHER EDUCATION
MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2020
SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE

Monday, October 05, 2020

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.

✍ **Essay Questions:**

1. A 58 year old gentleman, chronic smoker and hypertensive presents with history of sudden onset slurring of speech of 1 hour duration. Explain the pathophysiological mechanisms of his condition. Add a note on arterial supply of brain.

(15 marks)

2. Describe the pathophysiological changes occurring in a patient with failing heart.

(15 marks)

3. **Short answer questions:**

- 3A. Describe the pathophysiology of diarrhoea emphasizing secretory and osmotic causes.
- 3B. Describe mechanism of renal dysfunction in longstanding diabetes mellitus.
- 3C. Describe the mechanisms of actions of following with examples of potential use: amiodarone, streptokinase and eptifibatide.
- 3D. Draw a neat diagram of pain pathway and describe pathophysiology of pain in neurological disease.
- 3E. Describe the synthesis of adrenal glucocorticoid hormones. Discuss the effects of glucocorticoids on neurological system, collagen tissue and immune system after long term use.
- 3F. Discuss the mechanisms of auto immune and alloimmune haemolytic anaemia.
- 3G. Describe the mechanism of inflammatory response to allergens in asthma and ways to control it.
- 3H. Describe the mechanisms of actions of antifungal drugs with a note on pharmacokinetic considerations in antifungal therapy.
- 3I. A patient transferred out of ICU after recovery develops pneumonia 2 days later in the ward. Describe the patient care practices that would have prevented the occurrence of this condition with reasoning.
- 3J. Discuss the role of interleukin in health and disease.

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2020**

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

Tuesday, October 06, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions:**

✍ **Long Essays:**

1. Discuss Slow Viral Infections of Nervous system with special reference to Prion Diseases
(15 marks)
2. Discuss Eosinophilic Lung Disorders. Add a Note on Tropical Pulmonary Eosinophilia
(15 marks)

3. **Short Notes:**

- 3A. Auto Immune Hemolytic Anaemia
- 3B. Subclinical Hypothyroidism
- 3C. Sheehan's Syndrome
- 3D. Haemochromatosis
- 3E. Male Hypogonadism
- 3F. Lesions of Antero Superior Mediastinum
- 3G. Post Infectious Myelopathy
- 3H. DPP IV Inhibitors
- 3I. Multiple MonoNeuropathy
- 3J. Plasmapheresis

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2020****SUBJECT: PAPER III: CARDIOVASCULAR DISEASE, GASTROENTEROLOGY,
COLLAGEN DISEASES, GENETICS, IMMUNOLOGY AND RENAL DISORDERS**

Wednesday, October 07, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer ALL the questions.**

1. Classify cardiomyopathies. Discuss the aetiology, clinical features and management of dilated cardiomyopathy.

(15 marks)

2. A 30 year old male came to OPD with history of weight loss, altered bowel habits and recurrent oral ulcers. Discuss the possible diagnosis, management of this patient.

(15 marks)

3. **Short Notes:**

3A. Autoimmune encephalitis

3B. Klinefelter syndrome

3C. Complicated UTI

3D. Describe the criteria for diagnosis of acute MI in an ECG with LBBB

3E. Monoclonal antibodies

3F. Management of acute pancreatitis

3G. Hematuria

3H. Eisenmengers syndrome

3I. Mixed connective tissue disorder

3J. Schilling test.

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2020****SUBJECT: PAPER IV: INFECTIOUS DISEASE, TROPICAL MEDICINE, PSYCHIATRY
AND RECENT ADVANCES**

Thursday, October 08, 2020

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. Define Multidrug resistant tuberculosis (MDR). Discuss the clinical features, investigations and treatment.

(15 marks)

2. A 35 years old man comes with history of diarrhea of 3 months duration. How do you approach this patient?

(15 marks)

3. **Short notes on:**

- 3A. MODY
- 3B. Masked Hypertension
- 3C. Hematological problems in ICU
- 3D. Immunization in elderly
- 3E. Bipolar disorder
- 3F. Biomarkers of Parkinson's disease
- 3G. Systemic capillary syndrome
- 3H. Post transplantation Fever
- 3I. Cardiac resynchronization therapy
- 3J. Dabigatran Etexilate

(7 marks × 10 = 70 marks)

