

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

Wednesday, June 03, 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.

✍ **Essays Questions:**

1. Discuss the anatomy of conduction system of the heart. Briefly explain the clinical features, investigations and treatment of sick-sinus syndrome.

(15 marks)

2. Discuss the problems of organ transplantation.

(15 marks)

3. **Write short notes on:**

- 3A. Stress test and contraindications for it
- 3B. Orthostatic hypotension
- 3C. Types of amyloid and clinical disease caused by them
- 3D. High density lipoproteins
- 3E. Theories of aging process
- 3F. Erythropoietin
- 3G. Mechanism of ketone body production in health and diseases
- 3H. Circle of Willis
- 3I. Liver function tests and its significance in various diseases
- 3J. Role of rennin-angiotensin-aldosterone system in the pathogenesis of hypertension

(7 marks × 10 = 70 marks)



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

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

Thursday, June 04, 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 the question paper.**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer.**

**✍ Long Essays:**

1. An elderly woman of 80 years was found in confused state in the bath room. She was restless, groaning and moving all four limbs, but not answering questions. Mention the likely causes and clinical approach to this patient.

(15 marks)

2. Discuss the differential diagnosis of a 55 year old female labourer presenting with progressive dyspnoea; persistent non progressive cough of over a year and fine basal end inspiratory crackles on lung auscultation. Discuss the evaluation and treatment of this patient.

(15 marks)

**3. Write short notes on:**

3A. Mention the differential diagnosis in a 40 year old male incidentally detected to have haemoglobin of 19 gm. /dl and elevated erythropoietin. How to arrive at diagnosis?

3B. Mention FAB classification of acute myeloid leukaemia and add note on promyelocytic leukaemia.

3C. Insulin secretagogues in the treatment of diabetes mellitus

3D. Approach to eosinophilia in tropics

3E. Carcinoid syndrome

3F. Prion diseases

3G. Causes of hypoxia. Add a note on oxygen dissociation curve

3H. Clinical evaluation of acute new onset headache

3I. Antiphospholipid syndrome

3J. Monitoring and treatment of hypothyroidism during pregnancy.

(7 marks × 10 = 70 marks)



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

Friday, June 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.

**✍ Long Essays:**

1. Discuss etiology, Clinical features, Management and complications of acute Pancreatitis  
(15 marks)

2. Classify glomerulonephritis, discuss Lupus nephritis.  
(15 marks)

**3. Write short notes on:**

- 3A. Serum sickness
- 3B. Pulmonary hypertension
- 3C. X – linked disorders
- 3D. Mixed connective tissue disorder
- 3E. Complicated Urinary tract infection
- 3F. Nonalcoholic Steatohepatitis
- 3G. Management of infective endocarditis
- 3H. Interleukin
- 3I. Irritable bowel syndrome
- 3J. Takotsubo cardiomyopathy

(7 marks × 10 = 70 marks)



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

Saturday, June 06, 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.

**✍ Long Essay:**

1. Discuss Sepsis from Clinical perspective.

(15 marks)

2. Discuss Medical Problems in Elderly.

(15 marks)

**3. Write Short Notes on:**

- 3A. Current treatment guidelines for treatment of uncomplicated Falciparum Malaria.
- 3B. Fibromyalgia
- 3C. Monoclonal Antibodies
- 3D. HIV/AIDS Vaccine
- 3E. Role of newer tests in diagnosis of tuberculosis
- 3F. Potential agents for Biological warfare
- 3G. Liver dialysis
- 3H. Patient selection for Bariatric surgery
- 3I. Public health impact of Endosulfan use
- 3J. Wearable Artificial Kidney (WAK)

(7 marks × 10 = 70 marks)

