

Reg. No.									
----------	--	--	--	--	--	--	--	--	--

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2021**  
**PAPER I**

Monday, October 11, 2021

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. Describe the Conduction System of the Heart. Discuss the etiology, Clinical features and Management of Heart Block
- (15 marks)

2. Discuss Vitamin D Metabolism in Health and Disease
- (15 marks)

3. **Write a short note on:**

- 3A. Apoptosis
- 3B. Bladder control
- 3C. Coagulation Cascade
- 3D. Trace Elements
- 3E. Micro Albuminuria
- 3F. Neuro Muscular Junction
- 3G. Monoclonal Antibodies
- 3H. Glomerular Filtration Rate
- 3I. Anion Gap
- 3J. Hyper Pyrexia

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2021**  
**PAPER II**

Tuesday, October 12, 2021

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 55 year male presents to casualty with h/o convulsions of recent onset. What important history and physical signs are helpful to make a diagnosis? Discuss the management of this patient.

(15 marks)

2. Discuss the differential diagnosis of a middle aged woman presenting with progressive dyspnoea and dysphagia for solids. Her examination reveals facial congestion with distended neck and upper limb veins. What other symptoms and physical signs would aid in diagnosis? How to investigate this patient?

(15 marks)

3. **Write a short note on:**

- 3A. Gestational diabetes-diagnosis and management
- 3B. Evaluation of a young hypertensive patient reveals suprarenal mass. How do you proceed further?
- 3C. Role of physical examination in the diagnosis of head ache
- 3D. Treatment of chronic ITP in adults
- 3E. Carcinoid syndrome-clinical features, diagnosis and treatment
- 3F. Prion diseases
- 3G. Dermatomyositis
- 3H. Approach to patient presenting with polycythemia.
- 3I. Evaluation of trigeminal neuralgia
- 3J. Hypoventilation Syndromes

(7 marks × 10 = 70 marks)



MANIPAL ACADEMY OF HIGHER EDUCATION  
MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2021

PAPER III

Wednesday, October 13, 2021

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 75 year old elderly male is admitted for 2 episodes of syncope and found to have atrial fibrillation in ECG at admission. Discuss how do you evaluate him & discuss management plan in detail.

(15 marks)

2. Discuss in detail classification, clinical manifestations & management of Antiphospholipid antibody syndrome (APS)

(15 marks)

3. Write short notes on:

- 3A. Autoimmune pancreatitis
- 3B. Sorefenib
- 3C. Toxic cardiomyopathy
- 3D. Mitochondrial inherited disorders
- 3E. Novel biomarkers in kidney disease
- 3F. Gitelman's syndrome
- 3G. Light chain cast nephropathy
- 3H. Current classification of pulmonary hypertension
- 3I. Management of refractory ascites
- 3J. Biologicals in rheumatoid arthritis

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2021****PAPER IV**

Friday, October 15, 2021

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. Describe the clinical manifestations and diagnosis of rickettsial diseases. (15 marks)

2. Discuss the pathogenesis and treatment of septic shock in a 50 year old diabetic. Add a note on newer agents used in sepsis. (15 marks)

**3. Write short notes on:**

- 3A. Treating resistance to first line HAART
- 3B. Medical complications of anti psychotic drugs
- 3C. Gut commensals in health and disease
- 3D. Vaptans
- 3E. Newer therapies for osteoporosis
- 3F. Bariatric surgery
- 3G. Newer oral anticoagulants
- 3H. Treatment of hypoparathyroidism
- 3I. Interleukin based therapy
- 3J. Faecal transplantation

(7 marks × 10 = 70 marks)

