

MANIPAL ACADEMY OF HIGHER EDUCATION
MD (GENERAL MEDICINE) DEGREE EXAMINATION – JANUARY 2025
(REGULAR)

PAPER I

Tuesday, January 14, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Instructions

- ✍ Answer all the questions*
- ✍ Write only question number in margin space as it appears in question paper*
- ✍ Write answers in same order as they appear in question paper*
- ✍ Answer to the point, neatly and legibly*
- ✍ Write question or brief title above to each answer*
- ✍ Use line diagrams, tables and flow charts where appropriate*
- ✍ Long Questions:*
 1. Discuss Iron metabolism in human body. Explain Iron deficiency state and its clinical consequences in human body.
(15 marks)
 2. Discuss production and metabolism of Bilirubin in Human body. Explain with a flow chart approach and evaluation of patient with Jaundice.
(5+10 marks = 15 marks)
 3. **Write Short Notes on:**
 - 3A. Importance of Clinical skills (history taking and clinical examination) in the era of Modern Medicine.
 - 3B. Clinical reasoning
 - 3C. Assessment of **GFR** (Glomerular Filtration rate)
 - 3D. Mechanisms and signalling pathways underlying dyspnoea in humans
 - 3E. In the context of pharmacokinetics explain concept of Drug distribution and clinical implications of drug distribution
 - 3F. Structure and physiology of SA Node. List common subtypes of SA Nodal dysfunction.
 - 3G. Pathogenesis of fever, chills, rigors and symptomatic management of febrile patient
 - 3H. Symptomatic management of nausea and vomiting
 - 3I. Ethical and legal issues in organ donation
 - 3J. Application of Modern machine learning to clinical Medicine
(7 marks × 10 = 70 marks)



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PAPER II

Wednesday, January 15, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Instructions

- ✍ Answer all the questions*
- ✍ Write only question number in margin space as it appears in question paper*
- ✍ Write answers in same order as they appear in question paper*
- ✍ Answer to the point, neatly and legibly*
- ✍ Write question or brief title above to each answer*
- ✍ Use line diagrams, tables and flow charts where appropriate*

✍ Long Questions:

1. Discuss Type 2 Diabetes Mellitus under following headings:
Genetics, pathophysiology, metabolic abnormalities, prevention and remission.
(2+2+5+3+3 = 15 marks)

2. Discuss shock under following headings:
definition, pathophysiology, classification and stages.
Add a note on initial investigations in a case of unexplained shock.
(2+2+6+5 = 15 marks)

3. Write Short Notes on:

- 3A. Discuss focal onset seizures
- 3B. Role of imaging studies in case of acute CVA
- 3C. Preventive treatment for migraine
- 3D. Allergic Broncho Pulmonary Aspergillosis
- 3E. Discuss classification of Interstitial Lung Diseases
- 3F. Immune Hemolytic anemias
- 3G. Chemoprevention of Cancers
- 3H. Thrombotic Thrombocytopenic Purpura
- 3I. Adverse consequences of Obesity
- 3J. Acquired Hypopituitarism

(7 marks × 10 = 70 marks)



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PAPER III

Thursday, January 16, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Instructions

- ✍ Answer all the questions*
- ✍ Write only question number in margin space as it appears in question paper*
- ✍ Write answers in same order as they appear in question paper*
- ✍ Answer to the point, neatly and legibly*
- ✍ Write question or brief title above to each answer*
- ✍ Use line diagrams, tables and flow charts where appropriate*
- ✍ Long Questions:*

1. Define heart failure and describe its management.

(15 marks)

2. Describe the clinical features, investigations and treatment of Crohn's disease.

(5+4+6 = 15 marks)

3. **Write short notes on:**

- 3A. Resistant hypertension
- 3B. Electrical storm
- 3C. Causes of syncope and investigations of a case of syncope
- 3D. Investigations and treatment of mesenteric ischemia
- 3E. Diagnostic criteria for Behcet's disease
- 3F. Diagnosis of Sjogren's syndrome
- 3G. Clinical features of axial spondyloarthropathies
- 3H. Pauci immune glomerulonephritis
- 3I. Complications and treatment of Hyperkalaemia
- 3J. Common Variable immune deficiency

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
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(REGULAR)

PAPER IV

Friday, January 17, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Instructions

- ✍ Answer all the questions*
- ✍ Write only question number in margin space as it appears in question paper*
- ✍ Write answers in same order as they appear in question paper*
- ✍ Answer to the point, neatly and legibly*
- ✍ Write question or brief title above to each answer*
- ✍ Use line diagrams, tables and flow charts where appropriate*
- ✍ Long Questions:**

1. Describe the differential diagnosis and investigations of an immunocompromised patient with pulmonary infiltrates. (15 marks)

2. Discuss differential diagnosis of ulcerative genital lesions. (15 marks)

3. **Write short notes on:**

- 3A. Delirium in elderly hospitalized patients
- 3B. CAR-T cell therapy
- 3C. Adverse effects of immune checkpoint inhibitor therapy
- 3D. Clinical features of Arsenic poisoning
- 3E. Hematological manifestations of snake bite envenomation
- 3F. Primary amoebic meningoencephalitis
- 3G. Mpox infection
- 3H. Semaglutide
- 3I. Treatment of primary biliary cholangitis
- 3J. Indications for cardiac resynchronization therapy

(7 marks × 10 = 70 marks)

