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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – NOVEMBER 2025**  
**PAPER I**

Monday, November 10, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer all the questions**

✍ **Long Questions:**

1. Describe pathophysiology of fever and hyperpyrexia. Classify pyrexia of unknown origin and discuss an approach to pyrexia of unknown origin.

(15 marks)

2. Discuss the mechanisms of antimicrobial resistance and diagnostics to detect the resistance in a health care setting. Briefly discuss preventive strategies and outline the key principals of anti-microbial stewardship.

(15 marks)

3. **Short answer questions:**

3A. Briefly discuss with examples, the clinical significance of first pass metabolism.

3B. Role of Lipoprotein A in cardiovascular disease.

3C. Kaplan Meier curve.

3D. Describe the regulation of calcium metabolism in the body.

3E. Explain the concept of a confidence interval in statistical analysis.

3F. Significance of Lead aVR.

3G. Describe the neural control of bladder functions.

3H. Clinical application of FISH.

3I. Role of AI in critical care.

3J. Discuss ethical issues involved in a sero-discordant HIV couple.

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****MD (GENERAL MEDICINE) DEGREE EXAMINATION – NOVEMBER 2025****PAPER II**

Tuesday, November 11, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**Answer all the questions****Long Questions:**

1. Discuss etiopathogenesis, diagnosis, treatment and complications of ARDS. Briefly discuss the strategies of ventilator management in ARDS.

(15 marks)

2. Discuss the etiology, clinical features, diagnostic tests and management of cerebral venous thrombosis.

(15 marks)

**Short answer questions:**

3A. Management of sleep apnoea syndrome.

3B. Diabetes insipidus.

3C. Nutritional support in critically ill patients.

3D. Tropical pulmonary eosinophilia.

3E. Classify Parkinsonian disorders. Discuss the key distinguishing features and causes of each type.

3F. Complications of Thalassemia in adults.

3G. Myelodysplastic syndrome; classification, clinical features and complications.

3H. Pituitary apoplexy.

3I. Heparin induced thrombocytopenia.

3J. Outline the clinical presentation and treatment of thyroid storm.

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – NOVEMBER 2025**  
**PAPER III**

Wednesday, November 12, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Long Questions:**

1. Discuss etiopathogenesis, clinical presentation, diagnostic modalities and management of restrictive cardiomyopathy.

(15 marks)

2. Describe pathogenesis, clinical features and management of Crohn's Disease.

(15 marks)

3. **Short answer questions:**

3A. Rapidly progressive glomerulonephritis.

3B. Wegener's Granulomatosis.

3C. Trinucleotide repeats.

3D. Diagnostic approach to metabolic alkalosis.

3E. Serum sickness.

3F. Briefly discuss with examples genetic penetrance vs expressivity.

3G. Infectious Pancreatitis.

3H. Gene editing.

3I. Microbiome.

3J. Management of non-valvular atrial fibrillation.

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – NOVEMBER 2025**

**PAPER IV**

Thursday, November 13, 2025

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ✍ **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 wherever appropriate.**

✍ **Long Questions:**

1. Discuss approach to a case of poisonous snake bite. (15 marks)
  
2. Write the cutaneous manifestations of collagen vascular diseases. Discuss the current trends in management of CNS lupus. (15 marks)
  
3. **Write short notes on:**
  - 3A. Diabetic Sarcopenia-current status.
  - 3B. Discuss on Sepsis mimics.
  - 3C. Add a note on end of life care.
  - 3D. A female patient aged 45 Years presents with chronic diarrhea. How you will approach?
  - 3E. A male patient aged 46 years retro positive state on ART and regular follow-ups. Write the various metabolic complications you would expect in him due to ART treatment.
  - 3F. Discuss important medical issues in space travel.
  - 3G. Outline the diagnosis and treatment of severe asthma: a phenotype-based approach.
  - 3H. Discuss on Triple-Hormone-Receptor Agonist-Retatrutide in clinical practice.
  - 3I. A male patient aged 25 years victim of a road traffic accident is admitted in ICU with severe head injury and clinically diagnosed as brain dead. His parents want to go for his organ donation. How do you proceed as per National Organ Transplant Programme?
  - 3J. Write a note on Autoimmune Encephalitis.

(7 marks × 10 = 70 marks)

