

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2022**  
**PAPER I**

Monday, October 03, 2022

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. Write the normal body temperature regulation. Discuss the pathogenesis of fever and write the difference between fever and hyperthermia.

(15 marks)

2. Discuss the Visual pathway and discuss the diseases related to it.

(15 marks)

3. **Write notes on:**

3A. Significance of Lead aVR

3B. Locked in syndrome and its differential diagnosis

3C. Measurement of Insulin resistance

3D. Approach to patient with Hyponatremia

3E. Orthodeoxia

3F. Gynaecomastia

3G. Polymerase chain reaction (PCR) and its clinical implication

3H. Clinical uses of peripheral smear

3I. CRP

3J. Autocrine function of kidney

(7 marks × 10 = 70 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
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**PAPER II**

Tuesday, October 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Essay Questions:**

1. Discuss the management of acute stroke.

(15 marks)

2. Discuss the pathophysiology and management of sleep apnoea syndrome.

(15 marks)

3. **Write short notes on:**

3A. Type II respiratory failure

3B. Vonwillebrands disease

3C. Polycythemia rubra vera

3D. Reversible dementias

3E. Musculoskeletal abnormalities in endocrine disorders

3F. Temporal lobe epilepsy

3G. Approach to a patient with pancytopenia

3H. Metformin revisited

3I. Hashimoto's thyroiditis

3J. Incretin based therapies in diabetes mellitus

(7 marks × 10 = 70 marks)



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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2022**

**PAPER III**

Thursday, October 06, 2022

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. What are the causes of exudative ascites? Discuss evaluation of exudative ascites in a 40 yr male. Add a note on spontaneous bacterial peritonitis

(15 marks)

2. Describe the differential diagnosis of small joint arthritis. Write in brief the laboratory evaluation and treatment plan for a 24 years old female with SLE. Enumerate the complications she can develop in future.

(15 marks)

3. **Write short notes on:**

3A. Chronic constrictive pericarditis

3B. Evaluation of coronary plaque

3C. Genetic counseling in hemolytic anemias

3D. Osteoporosis

3E. Diagnosis and treatment of Helicobacter pylori

3F. Classify acute renal failure. Discuss the pathogenesis and management of contrast induced nephropathy.

3G. Urinary incontinence.

3H. Discuss the pathophysiology of syncope. List the causes of syncope.

3I. Genetically determined drug disposition and variable effects.

3J. Microscopic polyangiitis

(7 marks × 10 = 70 marks)





**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – OCTOBER 2022**

**PAPER IV**  
Friday, October 07, 2022

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 50 year male farmer presents with h/o fever of 6 month's duration and progressively worsening dyspnoea. Clinical examination reveals emaciated person with oral candidiasis, cyanosis, clubbing and tachypnoea. Discuss the differential diagnosis, approach to and treatment of this patient.

(15 marks)

2. A 82 year man admitted for an acute respiratory infection had to be intubated and mechanically ventilated. Discuss the risks of nosocomial medical problems likely to occur in this patient and describe the steps to avoid them.

(15 marks)

3. **Short Essays:**

- 3A. Topical and biologic therapies for diabetic foot ulcer
- 3B. Discuss the management of a young woman, survivor of a recent suicidal attempt
- 3C. Recent advances in the treatment of atrial fibrillation
- 3D. Dopamine based therapy in medicine
- 3E. Pre exposure HIV prophylaxis
- 3F. Obsessive-compulsive disorder-clinical features, diagnostic criteria and treatment
- 3G. Interleukin based therapy
- 3H. Pharmacogenomics in today's world
- 3I. Treatment of VRSA
- 3J. Continuous glucose monitoring

(7 marks × 10 = 70 marks)

