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

PAPER I

Friday, April 01, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer all questions.

1. Draw and discuss the optic pathway. What are the effects of the lesions at the various levels of the optic pathway?

(15 marks)

2. Discuss the mechanism of formation of urine. What is the aetiology, clinical features and management of chronic kidney disease?

(15 marks)

3. **Short notes:**

3A. Innervation of the bladder.

3B. Iron Transport.

3C. Neuromuscular junction and the neuromuscular blocking agents.

3D. Antidiuretic hormone.

3E. Rh factor and its significance.

3F. Portosystemic anastomoses and its clinical significance.

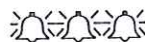
3G. Intrinsic factor secretion, action and management of its deficiency.

3H. Humoral immunity.

3I. Exchange transfusion and its indications.

3J. Dietary fibre and its importance in medicine.

(7 marks × 10 = 70 marks)



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PAPER II

Saturday, April 02, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer all the questions.

✍ Essay Questions:

1. Describe the approach to a case of polyuria. Discuss the investigations and management of central diabetes insipidus.

(15 marks)

2. Enumerate the causes of eosinophilia. Discuss the manifestations and management of tropical pulmonary eosinophilia

(15 marks)

3. Short answer questions:

3A. Heparin induced thrombocytopenia

3B. Phakomatosis

3C. Critical illness neuropathy

3D. Corticosteroid resistant asthma

3E. Diagnosis of pheochromocytoma

3F. G6PD deficiency

3G. Central sleep apnoea

3H. Treatment of postprandial hyperglycaemia

3I. Schillings test

3J. Pituitary tumours

(7 marks × 10 = 70 marks)



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PAPER III

Monday, April 04, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer all the questions.

✍ Essay Questions:

1. Discuss the pathophysiology and management of acute coronary syndromes. (15 marks)

2. Enumerate the various causes of proteinuria. How will you approach and manage such a patient? (15 marks)

3. Write short notes on:

3A. Auto-immune hepatitis

3B. Torsades de pointes

3C. Budd-Chiari syndrome

3D. Immune reconstitution inflammatory syndrome

3E. Anti-phospholipid antibody syndrome

3F. Genetics of type II diabetes mellitus

3G. Diastolic dysfunction

3H. Psuedogout

3I. Toxic epidermal necrolysis

3J. Lupus nephritis

(7 marks × 10 = 70 marks)



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PAPER IV
Tuesday, April 05, 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. 35 year old male who is recently detected to be HIV positive is admitted with 6 week history of fever. Give likely differential diagnosis in this case. How do you evaluate clinically and investigate? Write briefly on treatment.

(15 marks)

2. Discuss in detail etiology risk factors, clinical manifestations & management of Visceral leishmaniasis.

(15 marks)

3. Write short notes on:

- 3A. Cardiac resynchronization therapy
- 3B. Scrub typhus
- 3C. Chronic fatigue syndrome
- 3D. Biomarkers in sepsis
- 3E. Sofusbvir
- 3F. Scorpion bite
- 3G. Delirium in Intensive care unit
- 3H. Agoraphobia
- 3I. Targeted drug therapy
- 3J. Eltrombopag

(7 marks × 10 = 70 marks)

