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MANIPAL ACADEMY OF HIGHER EDUCATION
MD (GENERAL MEDICINE) DEGREE EXAMINATION – DECEMBER 2023
PAPER I

Monday, December 04, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all questions.**

✍ **Long Questions**

1. Describe physiology of nerve muscle junction and discuss its role in health and disease.
(15 marks)

2. Describe calcium metabolism; discuss etiology and clinical manifestations of hypercalcemia.
(15 marks)

3. **Write short notes on:**

3A. Neuro endocrinal functions of Pineal gland

3B. Oxygen dissociation curve

3C. Anion gap

3D. Leptin

3E. Innate immunity

3F. Hyperthermia

3G. Incretins

3H. Respiratory membrane

3I. Platelet derived growth factor (PDGF)

3J. Bilirubin metabolism

(7 marks × 10 = 70 marks)



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MD (GENERAL MEDICINE) DEGREE EXAMINATION – DECEMBER 2023

PAPER II

Tuesday, December 05, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Long Questions:**

1. Describe classification of peripheral neuropathy and discuss etiology, clinical features, diagnostic criteria, complications and management of Guillain- Barre syndrome.

(15 marks)

2. Describe pathophysiology, clinical manifestations, investigations and management options of Acromegaly.

(15 marks)

3. **Write short notes on:**

3A. Hairy cell leukemia

3B. Glucose toxicity

3C. Congenital bronchiectasis

3D. Carpal Tunnel syndrome

3E. Empyema thoracis

3F. G6PD deficiency

3G. Graves ophthalmopathy

3H. Acute promyelocytic leukemia (M3)

3I. Insulinoma

3J. Cluster headache

(7 marks × 10 = 70 marks)



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PAPER III

Wednesday, December 06, 2023

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Long Question:**

1. Discuss the aetiology, clinical features and management of Rapidly Progressive Glomerulonephritis.

(15 marks)

2. Enumerate the causes of secondary hypertension. Discuss the aetiology clinical manifestations, investigations and management of reno-vascular hypertension

(15 marks)

3. **Short Notes:**

3A. Emphysematous pyelonephritis

3B. Primary sclerosing cholangitis

3C. IgG4 mediated disease

3D. Management of atrial fibrillation

3E. Klinefelter's syndrome

3F. Antinuclear antibody

3G. Primary immunodeficiency

3H. Ischemic Preconditioning.

3I. Eosinophilic enteritis

3J. Noncirrhotic portal fibrosis.

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
MD (GENERAL MEDICINE) DEGREE EXAMINATION – DECEMBER 2023

PAPER IV

Thursday, December 07, 2023

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. Discuss infections related to uncontrolled diabetes. Add a note on mucormycosis.
(15 marks)
2. Describe Human Immunodeficiency Virus (HIV) induced immunopathology. Write briefly regarding respiratory opportunistic infections in HIV infected individuals.
(15 marks)
3. **Write short notes on:**
 - 3A. Describe various diseases caused by animal bite. Add a note on Post exposure prophylaxis of Rabies.
 - 3B. Clinical features and treatment of lepromatous leprosy.
 - 3C. Etiology and treatment of impotence.
 - 3D. Clinical features and treatment of panic attack. Add a note on post-traumatic stress disorder.
 - 3E. Mention the various indications for anticoagulants. Add a note on Newer anticoagulants.
 - 3F. Infection related cancers. Add a note on targeted therapies in solid tumors.
 - 3G. Diagnosis of fungal infections
 - 3H. Paranoid schizophrenia
 - 3I. Stem cell therapy in neurology
 - 3J. GLP1 analogs

(7 marks × 10 = 70 marks)

