Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

MD (GENERAL MEDICINE) DEGREE EXAMINATION – MAY 2021

PAPER I

Monday, May 03, 2021

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 tables 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. Describe the renal concentrating mechanism of body fluids and electrolytes. How do you approach a case of hypokalemia with normal blood pressure?

(15 marks)

2. Describe the calcium metabolism. How do you assess and manage adynamic bone disease in Chronic kidney disease?

(15 marks)

3. **Short answer questions:**

3A. Pathogenesis of fever
3B. Pathogenesis of clubbing of digits
3C. Oxygen dissociation curve
3D. Valsalva maneuver
3E. Restless leg syndrome
3F. Parasomnias
3G. Congenital adrenal hyperplasia
3H. Von Willebrand disease
3I. Clinical features of superior vena cava obstruction at different levels
3J. Splenosis

(7 marks × 10 = 70 marks)

Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

MD (GENERAL MEDICINE) DEGREE EXAMINATION – MAY 2021

PAPER II

Tuesday, May 04, 2021

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 tables 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. Describe the clinical features, investigations and management of hyperprolactinemia.

(15 marks)

2. Describe the clinical features, differential diagnosis and management of microangiopathic haemolytic anaemia

(15 marks)

3. **Short answer questions:**

3A. Obesity hypoventilation syndrome
3B. Systemic mastocytosis
3C. Clinical features of neuromyelitis optica
3D. Autoantibodies associated with myasthenia gravis and their clinical correlation
3E. Chylothorax
3F. Hypersensitivity pneumonitis
3G. Machado Joseph disease
3H. Treatment of Wilson's disease
3I. Paroxysmal hemicrania
3J. Intravenous thrombolysis in acute ischemic stroke

(7 marks ×10 = 70 marks)

Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

MD (GENERAL MEDICINE) DEGREE EXAMINATION – MAY 2021

PAPER III

Wednesday, May 05, 2021

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 tables 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. Describe the approach to wide complex tachycardia

(15 marks)

2. Describe the diagnosis and management of inflammatory bowel disease

(15 marks)

3. **Short answer questions:**

3A. Diagnosis of catastrophic antiphospholipid syndrome
3B. Revised Jones criteria
3C. Scleroderma renal crisis — prevention and treatment
3D. CASPAR criteria for psoriatic arthritis
3E. Hyper IgE syndrome
3F. Classification and treatment of lupus nephritis
3G. Trinucleotide repeat diseases
3H. Dual antiplatelet therapy
3I. Prevention of nephrolithiasis
3J. Interstitial nephritis

(7 marks × 10 = 70 marks)

Reg. No.										

MANIPAL ACADEMY OF HIGHER EDUCATION

MD (GENERAL MEDICINE) DEGREE EXAMINATION – MAY 2021

PAPER IV

Thursday, May 06, 2021

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 tables 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 the importance of gut microbiota in health and disease.

(15 marks)

2. Discuss the aetiopathogenesis, clinical features and management of Haephagocytic lymphohistiocytosis (HLH).

(15 marks)

3. **Short answer questions:**

3A. Molecular markers and clinical features of promyelocytic leukemia
3B. Pharmacogenomics
3C. Complications of Antiretroviral therapy
3D. Clinical features of IgG4 related diseases
3E. Biomarkers of acute kidney injury
3F. SPRINT trial
3G. NIPAH virus infection
3H. Veverimer
3I. Idarucizumab
3J. SGLT2 inhibitors – non glycemic benefits

(7 marks × 10 = 70 marks)