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**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2019**  
**SUBJECT: PAPER I: BASIC SCIENCES AS APPLIED TO MEDICINE**

Tuesday, April 02, 2019

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.**

✍ **Long Essays:**

1. Describe various steps of normal hemostasis. Describe the pathogenesis of DIC. Add a note on Thrombophilia.

(15 marks)

2. Describe normal bile pigment metabolism. Write briefly about approach to a patient with direct hyperbilirubinemia. Add a note on urine examination in various types of jaundice.

(15 marks)

3. **Write short notes on:**

3A. Discuss Vitamin D metabolism. Write in brief the causes and clinical features of Vitamin D deficiency in adults.

3B. Describe the various types of shock. Discuss the clinical features and management of anaphylactic shock.

3C. Describe the various inflammatory mediators. Add a note on Systemic inflammatory response syndrome (SIRS).

3D. What are the causes of generalized edema? Discuss in brief the pathophysiology and management of edema due to renal disease.

3E. Write in brief the physiology of impulse transmission across neuromuscular junction. Discuss the clinical features and management of myasthenia gravis.

3F. Tongue in diagnosis of medical diseases.

3G. Investigations and treatment of hypopituitarism

3H. Define dyspnea. Describe various mechanisms of dyspnea.

3I. Fallacies of light's criteria

3J. Effect of liver disease on drug concentration and response. Add a note on first pass metabolism.

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION****MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2019****SUBJECT: PAPER II: NEUROLOGY, RESPIRATORY DISORDERS, BLOOD DISORDERS AND ENDOCRINOLOGY**

Wednesday, April 03, 2019

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 the question paper.**
- ✍ **Start answer for each question in fresh page. Write the question/Brief title prior to each answer.**

**✍ Long Essays:**

1. Discuss the differential diagnosis of episodic generalized muscle weakness. Discuss the management of Myasthenia Gravis.

(15 marks)

2. Outline the differential diagnosis of new onset seizures in a 30 years old female. Add a note on newer modalities of therapy of refractory epilepsy.

(15 marks)

**3. Write short notes on:**

- 3A. Obstructive Sleep Apnea
- 3B. GLP-I analogues
- 3C. Thyroid storm
- 3D. Heparin induced thrombocytopenia
- 3E. Unstable Hemoglobins
- 3F. Normal pressure hydrocephalus
- 3G. Chronic lymphocytic leukaemia
- 3H. Diagnosis of hypocortisolism
- 3I. Thrombotic thrombocytopenic purpura
- 3J. Treatment of sub arachnoid hemorrhage

(7 marks × 10 = 70 marks)



**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2019**  
**SUBJECT: PAPER III: CARDIOVASCULAR DISEASE, GASTROENTEROLOGY,**  
**COLLAGEN DISEASES, GENETICS, IMMUNOLOGY AND RENAL DISORDERS**

Thursday, April 04, 2019

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.**

✍ **Long Essays:**

1. Write the stages of chronic kidney disease. Discuss the clinical features and management of chronic kidney disease.

(15 marks)

2. A 25 years old male presents with severe hypertension. How do you approach and manage this patient?

(15 marks)

3. **Short notes on:**

- 3A. Chronic diarrhea
- 3B. Adult immunization
- 3C. Current treatment of Ankylosing spondylitis
- 3D. Non-alcoholic steatohepatitis
- 3E. Sudden cardiac death
- 3F. Cancer genetics
- 3G. Approach to a 35 years old female with digital gangrene
- 3H. Periodic fever syndromes
- 3I. Drug induced renal disease
- 3J. Pancreatic imaging

(7 marks × 10 = 70 marks)



## MANIPAL ACADEMY OF HIGHER EDUCATION

MD (GENERAL MEDICINE) DEGREE EXAMINATION – APRIL 2019

SUBJECT: PAPER IV: INFECTIOUS DISEASE, TROPICAL MEDICINE, PSYCHIATRY  
AND RECENT ADVANCES

Friday, April 05, 2019

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.

## ✍ Long Essay:

1. Discuss various mechanisms of bacterial resistance. How do you prevent and manage multi drug resistant nosocomial infections?

(15 marks)

2. Describe the clinical features, diagnosis and management of Rickettsial diseases.

(15 marks)

## 3. Short essay:

- 3A. Bipolar disorder
- 3B. Serotonin syndrome
- 3C. Ecthyma gangrenosum
- 3D. Septic cavernous sinus thrombosis
- 3E. Pancreatic transplantation
- 3F. Paracetamol poisoning
- 3G. Avian influenza (H5N1) infection
- 3H. Phobic disorders
- 3I. Simeprevir
- 3J. Alemtuzumab

(7 marks × 10 = 70 marks)

