Attempt all questions in order. Each question carries 10 marks.

1. Enumerate the actions of Growth Hormone. Discuss the clinical features, diagnosis and treatment of adult growth hormone deficiency. 3+2+2+3
2. Discuss the vascular endothelial cell function in health and disease. Describe clinical assessment of Endothelial function. 5+5
3. Define and list the causes of delirium. Describe the approach to diagnosis of a case of delirium. 2+3+5
4. Discuss etiology, clinical features, prognostic markers and management of acute liver failure. 2+2+2+4
5. Define hyper-eosinophilic syndrome. Describe its etiopathogenesis, clinical spectrum and management. 1+3+3+3
6. Define mutation. Briefly describe autosomal dominant inheritance. Draw a family tree of an autosomal dominant disease. 2+4+4
7. Define anion gap. Describe the causes, diagnosis and treatment of anion gap metabolic acidosis. 2+2+3+3
8. Discuss differential diagnosis of 'Solitary Pulmonary Nodule'. Describe its diagnostic algorithm. 5+5
9. Define sudden cardiac death. Describe initial evaluation and basic life support in such a situation. 2+3+5
10. Discuss differential diagnosis of ST segment elevation. Describe ECG changes in hyperkalemia, hypokalemia and hypocalcemia. 4+2+2+2
Attract all questions in order.
Each question carries 10 marks.

1. Describe clinical features, laboratory findings and treatment of Idiopathic Thrombocytopenic Purpura.  
   3+3+4

2. Define anaphylaxis. Enumerate its causes. Describe its clinical presentation and management.  
   1+2+3+4

3. Describe current WHO guidelines for diagnosis and treatment of complicated malaria.  
   5+5

4. Define cardio-renal syndrome. Discuss its etiopathology and management.  
   1+4+5

5. Describe causes, diagnostic evaluation and treatment of a patient presenting with haematuria.  
   3+3+4

   3+4+3

   2+3+5

8. Discuss differential diagnosis and diagnostic evaluation of a patient with new onset acute headache.  
   5+5

9. Define parenteral nutrition. Discuss its indications, types and complications.  
   2+2+2+4

    2+2+2+4

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2. What are Proton Pump Inhibitors? Describe their function, uses and adverse effects.

3. Define Systemic Inflammatory Response Syndrome. Describe its diagnostic criteria, clinical presentation and management.

4. Define hepato-pulmonary syndrome. Describe its pathogenesis, diagnosis and management.

5. Describe pathophysiology, diagnostic evaluation and treatment of renal amyloidosis.

6. Define metabolic syndrome. Discuss evaluation and treatment of a patient with morbid obesity.

7. Describe clinical presentation, diagnostic evaluation and management of a patient with HIV infection.

8. Describe etiopathogenesis, clinical presentation, diagnostic evaluation and treatment of Wilson’s Disease.

9. What are the types of mechanical ventilators? Describe the indications and complications of mechanical ventilation.

10. Discuss chemical terrorism under the following headings:
    a) Agents
    b) Treatment
    c) Prevention

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GENERAL MEDICINE
PAPER- IV

Time : 3 hours
Max. Marks : 100

MED/J/12/08/IV

Attempt all questions in order.
Each question carries 10 marks.

1. a) Discuss synthesis and metabolism of Vitamin D. 5+5
   b) Enumerate role of vitamin D in health and disease.

2. a) Describe regulation of Hypothalamic-Pituitary-Adrenal Axis. 3+(2+2+3)
   b) Briefly discuss etiology, clinical presentation and management of adrenal insufficiency.

3. Describe pathophysiology, clinical presentation and management of 3+2+5
   High Altitude Pulmonary Oedema.

4. Discuss Bio-medical waste management. 10

5. Describe the pathophysiology, clinical features and management of 3+2+5
   carbon monoxide poisoning.

6. Define acute kidney injury. Describe its etiopathogenesis, clinical presentation and treatment. 2+(3+2+3)

7. Describe the basic mechanisms of systolic dysfunction, diastolic dysfunction and ventricular remodeling. 4+3+3

8. Define the terms sensitivity or true positive rate and specificity or true negative rate and discuss their clinical significance. 2+2+6

9. What is informed consent? Discuss genetic counseling. What are the indications of genetic counseling? 2+4+4

10. Discuss antimicrobial drug resistance. 10

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