

Time : 3 hours

Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1. A 30-year patient presents to the emergency with fever and altered sensorium. 4+6
 - a) Enumerate differential diagnosis
 - b) Approach to the patient in the ED
2. A 68 year old male presents to ED with chest pain. His ECG shows ST- segment elevation in V2-V6. 2+2+3+3
 - a) Enumerate causes of ST segment elevation
 - b) How will you manage this patient in the ED?
 - c) Discuss HEART score and TIMI score in a patient with chest pain.
 - d) How will you decide between percutaneous coronary intervention and fibrinolytic therapy?
3. A 30 year old presents to the emergency with an acute onset of breathlessness. 3+2+2+3
 - a) Enumerate the causes of acute onset of breathlessness
 - b) In a patient with acute asthma, how do you classify his asthma attack based on the peak expiratory flow rate (PEFR).
 - c) What are the indications for assisted ventilation in a patient with acute asthma?
 - d) What are the initial ventilator settings for invasive positive pressure ventilation in acute asthma?
4. A 42 year old male is brought to the ED with right arm and leg weakness with slurring of speech for past 2 hours. His vitals are PR 100/min, BP 200/130 mmHg and oxygen saturation 95%. He is fully conscious. 5+2+3
 - a) Step-wise assessment and management of this patient in ED.
 - b) What are stroke-mimics?
 - c) What are the absolute and relative contraindications to fibrinolytic therapy?



5. a) What are the causes acute onset of jaundice? 2+2+3+3
b) List the complications of cirrhosis of liver
c) Discuss briefly spontaneous bacterial peritonitis
d) Discuss briefly hepato-renal syndrome
6. a) Pathophysiology of acute kidney injury 3+3+2+2
b) RIFLE criteria for acute kidney injury
c) Laboratory evaluation of acute kidney injury
d) Radiocontrast-induced nephropathy
7. A patient has come with suspected tetanus. Discuss the 3+3+2+2
following:
a) Pathophysiology of tetanus
b) Control of muscle spasms
c) Control of autonomic dysfunction
d) Immunotherapy and immunization
8. a) Factors precipitating lithium toxicity 3+4+3
b) Toxic effects of chronic lithium poisoning
c) Management of chronic lithium poisoning
9. a) Regulation of body temperature 3+4+3
b) Cooling techniques in heat stroke
c) Complications of heat stroke
10. a) Clinical features of myxedema crisis 3+2+5
b) List differential diagnosis of myxedema crisis
c) ED treatment of myxedema crisis
