

EMERGENCY MEDICINE

PAPER – I

EM/J/17/52/I

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) Sodium homeostasis. 4+3+3
b) Mention various causes of hyponatremia.
c) Pathophysiology of clinical effects of hyponatremia.
2. a) Draw a labeled diagram of portal venous system. 3+3+4
b) Enumerate causes of portal hypertension.
c) Pathophysiology of ascites in cirrhosis of liver.
3. a) Bayes Theorem. 3+3+4
b) What are the measures of diagnostic test accuracy?
c) ROC curve (Receiver Operating Characteristic curve).
4. a) Bioavailability of a drug. 2+4+4
b) 'First pass effect' of a drug.
c) Clinical implications of half life measurement of a drug.
5. a) What are baroreceptors? 2+2+3+3
b) Common locations of baroreceptors in body.
c) Baroreflex.
d) Management of orthostatic hypotension.
6. a) How do lungs regulate acid base balance? 2+4+4
b) Pathophysiology of metabolic alkalosis.
c) What are the common causes of metabolic alkalosis?
7. a) Anatomy of lower motor neurons with a suitable diagram. 4+3+3
b) Clinical signs characteristic of lower motor neuron disease.
c) Enumerate causes of episodic generalized weakness.

P.T.O.

EMERGENCY MEDICINE

PAPER – I

8. a) Define "Ataxia". 2+4+4
b) What are various features of cerebellar disease?
c) How do you differentiate between cerebellar ataxia and sensory ataxia?
9. a) Pathophysiology of hyperosmolar hyperglycemic state. 3+3+4
b) Diagnostic criteria of hyperosmolar hyperglycemic state.
c) How do you differentiate between hypermolar hyperglycemic state and diabetic ketoacidosis.
10. a) Draw a labeled diagram of middle ear. 4+2+4
b) What are the causes of "Otitis externa"?
c) How do you differentiate sensorineural deafness from conductive deafness?
