

EMERGENCY MEDICINE

PAPER-I

Time: 3 hours
Max. Marks:100

EM/J/20/52/I

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) Illustrate counter current mechanisms for urine acidification. 4+3+3
b) Various methods to provide renal replacement therapy.
c) Emergency complications in a patient with renal transplant.
2. a) Patho-physiology of diabetic ketoacidosis. 5+3+2
b) Diagnostic criteria for diabetic ketoacidosis.
c) Complications of diabetic ketoacidosis.
3. a) Describe the anatomy and physiology of neuromuscular junction. 4+3+3
b) Enumerate differential diagnosis of acute onset quadriparesis.
c) Management of myasthenic crisis.
4. a) Draw a diagram and describe the physiology of lung volumes and capacities. 4+3+3
b) Initial ventilator management in a patient with respiratory acidosis.
c) Initial ventilator management in a patient with metabolic acidosis.
5. a) Describe the pathophysiology of COVID-19 infection in humans. 4+2+1+3
b) Awake proning in ARDS.
c) Single breath count in Emergency care.
d) How will you prepare your Emergency Department triage during the pandemic of COVID-19?
6. a) Discuss rotator cuff injuries. 4+3+3
b) Diagram of anatomy of brachial plexus.
c) Clinical presentation of Brachial plexus injuries.
7. a) Physiology of temperature regulation. 4+6
b) Heat stroke.
8. a) Antiplatelet drugs. 3+3+4
b) High-dose insulin therapy in acute poisoning.
c) Intravenous lipid emulsion.

P.T.O.

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9. a) Calcium hemostasis. 3+2+3+2
b) Causes of hypocalcemia.
c) Clinical features of hypocalcemia.
d) Treatment of hypocalcemia.
10. a) Pathophysiology of heart failure. 4+2+4
b) Biomarkers in diagnosis of heart failure.
c) Management of sympathetic crashing acute pulmonary edema.
