

**EMERGENCY MEDICINE**

PAPER-I

EM/D/18/52/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) Jugular venous pulsations, waves and its clinical significance. 4+6  
b) Basic hemodynamic monitoring in a patient admitted in ICU.
2. a) Enumerate causes of hyponatremia. 3+3+4  
b) Write approach to diagnose such cases.  
c) Write about the management of life threatening hyponatremia in ICU.
3. a) Physiology of temperature regulation in human. 2+2+3+3  
b) Enumerate heat emergencies.  
c) Write about its clinical presentation.  
d) Write about management of such cases in emergency department.
4. a) Write about medical oxygen therapy in ED. 4+1+2+3  
b) Enumerate causes of type 1 respiratory failure.  
c) Enumerate causes of type 2 respiratory failure.  
d) Enumerate the pre-requisites for putting patients on noninvasive ventilatory treatment.
5. a) Describe cardiac biomarkers of importance in ED. 4+6  
b) How will you set up "point of care" laboratory in your ED and write rationale behind that?
6. a) Basic principles of splinting and traction. 3+3+4  
b) Devices used in ED and pre-hospital care for splinting.  
c) Write about types of immobilization dressings.
7. a) Write about the anatomical differences in adult and child airway related to endotracheal intubation. 6+2+2  
b) Enumerate its immediate complications.  
c) Long term complications of endotracheal intubation.

P.T.O.

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8. a) Define disaster. 1+2+3+4  
b) Write about factors that may hinder ED response to disaster.  
c) Write about components of hospital emergency operations plan.  
d) Describe ED disaster response including triage.
9. a) Basic principles of decontamination in cases of poisoning. 3+3+4  
b) Ocular decontamination.  
c) Gastric decontamination.
10. You are ED in-charge. One of your doctor staff has needle stick injury 2+2+4+2  
while he was doing invasive lifesaving procedures on an HIV and HBsAg positive victim in ED. How will you guide him?  
a) Immediate actions to be taken.  
b) Initial base line investigations to be done.  
c) Which medicines/injections you would like to give him immediately?  
d) Describe how to follow him up.

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