

EMERGENCY MEDICINE

PAPER-I

Time: 3 hours
Max. Marks:100

EM/J/19/52/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) Pathophysiology of bomb blast injuries. 4+2+2+2
b) Enumerate factors affecting bomb blast injuries.
c) Field triage in bomb blast injuries.
d) ED triage in bomb blast injuries.
2. a) Control zones of a chemical release event at a scene. 3+2+2+3
b) How do you suspect chemical terrorism?
c) Classify the chemical agents as per their actions.
d) Personal protective equipments
3. a) Pathophysiology of coagulopathy observed in trauma victims. 3+2+5
b) Role of Thromboelastography in coagulopathy.
c) Damage control resuscitation.
4. a) Clinical criteria for anaphylaxis. 3+2+5
b) Enumerate pathophysiology of anaphylaxis.
c) Current treatment of anaphylaxis.
5. a) Discuss physiological changes in pregnancy relevant to managing emergency conditions. 5+5
b) How will you resuscitate a 26-weeks pregnant woman who is in cardiac arrest?
6. a) Discuss various methods to confirm correct position of endotracheal tube. 5+2+3
b) Draw and label the normal capnogram.
c) Write on role of capnography variations in assessment of ventilator abnormalities.

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| 7. | a) Pathophysiology of tumour lysis syndrome.
b) Clinical features of tumour lysis syndrome.
c) Management of tumour lysis syndrome. | 3+3+4 |
| 8. | a) Draw a labelled diagram of cardiac conduction system.
b) Classify cardiac arrhythmias.
c) Classify anti-arrhythmic agents.
d) Discuss various mechanisms of cardiac arrhythmias. | 2+2+2+4 |
| 9. | a) Anatomy of knee joint.
b) Clinical tests for diagnosis of cruciate ligament injuries of knee. | 5+5 |
| 10. | a) Blood supply of spinal cord.
b) Labelled diagram of transverse section of spinal cord at the level of dorsal-6 (thoracic-6) vertebra.
c) Various rules for imaging cervical spine in a trauma patient. | 3+3+4 |
