

EMERGENCY MEDICINE**PAPER-I**Time: 3 hours
Max. Marks:100

EM/D/20/52/I

Important Instructions:

- You are provided with 5 answer sheet booklets. Each individual answer sheet booklet consists of 10 pages excluding the covering jackets.
- Answers to all the questions must be attempted within these 5 answer sheet booklets which must be later tagged together at the end of the exam.
- No additional supplementary answer sheet booklet will be provided.
- 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) Pathways of transmission of pain. 3+4+3
b) Local anaesthetic drugs.
c) Hematoma block.
2. a) Physiology of temperature regulation. 4+2+4
b) Enumerate the methods of measuring the body temperature.
c) Management of heat stroke.
3. a) Pathophysiology of acclimatization. 4+3+3
b) What is the management of acute mountain sickness?
c) Caisson sickness.
4. a) Physiology of blood flow in the heart. 5+5
b) POCUS in estimation of fluid volume in shock.
5. a) Anatomical characteristics of pediatric airway. 3+4+3
b) How does pediatric airway differ from adult airway?
c) Steps of management of difficult pediatric airway.
6. a) Buffer systems, respiratory and renal regulations of acid-base balance. 4+4+2
b) Describe the difference between arterial blood gas and venous blood gas.
c) Acid-base disorders in trauma.
7. a) Physiology of adrenal hormone secretion. 5+5
b) What is the management of adrenal crisis?

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8. a) Physiology of haemostasis. 4+2+4
b) What are the tests for primary and secondary haemostasis?
c) von Willebrand disease.
9. a) Physiology of urine formation. 4+4+2
b) What is the mechanism of action of various classes of diuretic drugs?
c) What are the complications of diuretics?
10. a) Anticonvulsants. 5+5
b) Anti-arrhythmic drugs.

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