

**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?

P.T.O.

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

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