

FINAL EXAM  
JUNE 2018

NATIONAL BOARD OF EXAMINATIONS

**EMERGENCY MEDICINE****PAPER-I**

EM/J/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:

- Draw neat labelled diagram of cerebral circulation. 3+3+4
  - How is cerebral autoregulation maintained?
  - Cerebral herniation syndromes.
- Anatomy of shoulder joint. 4+3+3
  - Pathophysiology of impingement syndrome of shoulder.
  - Pathophysiology of rotator cuff tear.
- Fundamentals of radiation physics. 3+3+4
  - Biologic effects of ionizing radiation.
  - Clinical features of acute radiation syndrome.
- Physiology of high altitude acclimatization. 5+2+3
  - List various high altitude illnesses.
  - Prevention of high-altitude illnesses.
- Define vertigo. 1+2+3+4
  - What is vestibulo-ocular reflex?
  - How do you differentiate peripheral from central vertigo?
  - Diagnostic approach to a patient with vertigo in Emergency Department (ED).
- What is neurogenic shock? 1+3+3+3
  - Pathophysiology of neurogenic shock.
  - How will you differentiate neurogenic shock from spinal shock?
  - How do you manage neurogenic shock?
- Pathophysiology of pain. 4+3+3
  - Discuss any three pain scales used in ED for adults.
  - Complex regional pain syndrome.
- Various gas laws relevant to hyperbaric oxygen therapy. 3+2+2+3
  - Physiological effects of hyperbaric oxygen.
  - Enumerate indications of hyperbaric oxygen therapy.
  - Write a note on one of the definitive indications of hyperbaric oxygen.

**P.T.O.**

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9.   a) What is an adverse drug reaction? 2+2+3+3  
     b) Classification of adverse drug reactions.  
     c) Pathophysiology of adverse drug reactions.  
     d) What is Pharmacovigilance?
10.   a) Henderson-Hasselbalch equation. 1+1+4+4  
     b) Kassirer-Bleich equation.  
     c) Pathophysiology of respiratory acidosis.  
     d) Adaptation in chronic respiratory acidosis.

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