

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

EM/D/19/52/III

**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:**

- a) Compare the various scoring systems to predict outcome in acute onset chest pain. 3+2+3+2
  - b) Describe ECG findings requiring immediate coronary intervention. Enumerate other causes of ST elevations.
  - c) Utility of cardiac biomarkers in Emergency department.
  - d) Classify acute myocardial infarction.
- a) Describe etiopathogenesis, clinical feature and management of acute kidney injury. 4+2+2+2
  - b) Bicarbonate therapy - indications and complications.
  - c) Urinalysis in Emergency department.
  - d) Indications for RRT in ED.
- a) Describe the clinical features and management of meningitis in a pediatric age group. 5+3+2
  - b) Approach and management of coma in a young adult.
  - c) Antiepileptic therapy in Emergency department.
- a) Enumerate the causes of acute onset dyspnea in adult patient, based on severity. Discuss the investigations performed to establish the diagnosis. 4+3+3
  - b) Non-invasive ventilation in ED - weaning protocol.
  - c) Suggest, with justification the initial ventilator settings for invasive mechanical ventilation for a COPD patient.
- a) Tricyclic antidepressant poisoning 4+3+3
  - b) Describe differences between Neuroleptic Malignant Syndrome and Serotonin Syndrome.
  - c) Organophosphorus poisoning - drug therapies for treatment.

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6. a) Approach to the management of a young adult with fever and jaundice. Discuss the diagnostic algorithm. 4+3+3  
b) Malignant Hyperthermia - clinical features and treatment pearls.  
c) Post-exposure prophylaxis for needle stick injury from HIV positive patient for emergency care providers.
7. a) Describe clinical features and management of Sickle cell crisis. 4+3+3  
b) ED physician role in management of febrile neutropenia.  
c) Blood component therapy in anticoagulant induced upper GI bleeding in ED.
8. a) Discuss various pain assessment scores in children. 4+4+2  
b) Procedural sedation and analgesia for reduction of hip dislocation in a known hypertensive adult on regular antihypertensive.  
c) Femoral nerve block and intercostal nerve block.
9. a) Approach to acute onset diffuse bullous lesions. 3+2+2+3  
b) Approach to acute onset erythematous rash in children.  
c) Panic disorder - presentation and treatment.  
d) Approach to a patient with narrow-complex tachycardia.
10. a) Describe Delta Gap and its clinical implications. 3+3+2+2  
b) Metabolic alkalosis - causes, clinical presentations and management.  
c) Briefly discuss the clinical features and management of hypercalcemia.  
d) Briefly discuss the clinical importance of Osmolal gap for emergency physician.

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