

**EMERGENCY MEDICINE**

PAPER – IV

EM.MED/D/17/52/IV

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:**

- Name three recent trials on control of blood pressure in patients with intracranial hemorrhage. 3+4+3
  - Discuss anyone of them.
  - Discuss briefly about drugs to control blood pressure in patients with intracranial hemorrhage.
- Triage of a victim of sexual assault 2+5+3
  - Assessment of female victim of sexual assault
  - Treatment of female victim of sexual assault
- Discuss various steps to prepare a neonate for transport to other hospitals 4+6
  - Special considerations in neonates when preparing for transport
- A 7-year school-going boy came to ED with one day fever of 102.6°F fever and cold. Several cases of H1N1 influenza infection were reported during that period. 2+4+2+2
  - What standard precautions would you take in ED while examining a patient with suspected influenza infection?
  - Define categories of patients with suspected H1N1 infection.
  - Discuss briefly the drugs used to treat a case of influenza infection.
  - How will you manage this child?
- Epidemiology of recent outbreak of Zika virus infection 3+3+3+1
  - Clinical features of Zika infection
  - Complications of Zika infection
  - Recent observation about transmission of Zika virus through sexual contact

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6. Regarding ocular ultrasonography in the emergency department: 3 +3+2+2
- a) Discuss the uses of this technology in ED
  - b) Define normal values of optic nerve sheath diameter in adults
  - c) List the pitfalls of this examination
  - d) What are the precautions and contraindications of this test?
7. 4+2+4
- a) Diagnostic criteria and severity assessment for Substance use disorders based on the Diagnostic and Statistical Manual of Mental Disorders
  - b) Enumerate different alcohol withdrawal syndromes
  - c) ED management of alcohol withdrawal syndrome
8. A 2 year old child was brought to ED with complaints of fever for 6 days associated with rash over the trunk and extremities. On examination, there is conjunctival congestion without any discharge and cervical lymphadenopathy. 1+4+3+2
- a) What is the most probable diagnosis?
  - b) What are the diagnostic criteria for this illness?
  - c) What are the complications?
  - d) How will you manage this child?
9. Discuss the following in a child with sickle cell disease: 4+3+3
- a) Vaso-occlusive crisis
  - b) Fever
  - c) Neurologic complaints
10. 2+2+2+2+2
- a) Discuss briefly about mechanical CPR (Cardiopulmonary resuscitation) devices.
  - b) What is impedance threshold device in CPR?
  - c) Discuss the techniques used in extracorporeal cardiopulmonary resuscitation
  - d) What do you understand by CPR feedback devices?
  - e) What are the recommendations about use of feedback devices during CPR?

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