

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:

1. a. Name three recent trials on control of blood pressure in patients with intracranial hemorrhage. 3+4+3
 b. Discuss anyone of them.
 c. Discuss briefly about drugs to control blood pressure in patients with intracranial hemorrhage.
2. a. Triage of a victim of sexual assault 2+5+3
 b. Assessment of female victim of sexual assault
 c. Treatment of female victim of sexual assault
3. a. Discuss various steps to prepare a neonate for transport to other hospitals 4+6
 b. Special considerations in neonates when preparing for transport
4. 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
 a. What standard precautions would you take in ED while examining a patient with suspected influenza infection?
 b. Define categories of patients with suspected H1N1 infection.
 c. Discuss briefly the drugs used to treat a case of influenza infection.
 d. How will you manage this child?
5. a. Epidemiology of recent outbreak of Zika virus infection 3+3+3+1
 b. Clinical features of Zika infection
 c. Complications of Zika infection
 d. 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. a) Diagnostic criteria and severity assessment for Substance use disorders based on the Diagnostic and Statistical Manual of Mental Disorders 4+2+4
- 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. a) Discuss briefly about mechanical CPR (Cardiopulmonary resuscitation) devices. 2+2+2+2+2
- 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?
