

**PG Degree Examinations in Emergency Medicine (MD) April 2019**

**Paper I – Applied Basic Sciences, General Emergency Medicine and Disaster Preparedness**

**Time: 3 hrs**

**Max marks:100**

- ***Answer all questions***
- ***Draw diagrams wherever necessary***

**Essay:**

**(20)**

1. Draw labelled diagram of cerebral circulation. Explain cerebral autoregulation. Describe clinical features of raised ICP. Describe Glasgow coma scale and its clinical significance. (4+4+4+8)

**Short essays:**

**(8x10=80)**

2. Evaluation of difficult airway.
3. Procedural sedation and analgesia in ED
4. Pharmacology and indication of vasopressor & inotropes.
5. Pathophysiology of septic shock.
6. Role of calcium ( $Ca^{2+}$ ) ion in human body. Describe the causes and clinical features of hypocalcaemia. Describe the emergency management of hypocalcaemia.
7. Metabolic changes in acute salicylate poisoning
8. Describe pain pathway and method of evaluation of pain at ED.
9. Describe the management of mismatched blood transfusion in ED.

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