

**PG Degree Regular/Supplementary Examinations in Emergency Medicine (MD) January 2025**

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

**Time: 3 hrs**

**Max marks:100**

- *Answer all questions to the point neatly and legibly* • *Do not leave any blank pages between answers* • *Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together* • *Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay:** **(20)**

1. How will you approach a two-year-old child who presented with acute respiratory distress. Discuss the pathophysiology, diagnosis and management of acute severe asthma in a child. (4+4+6+6)

**Short essays:** **(8x10=80)**

2. Classify hypersensitivity reactions. Describe the pathogenesis, clinical features and management of anaphylactic reactions. (4+2+2+2)
3. Define Obesity. What are the adverse consequences with which obese patient can present to ED. (3+7)
4. Define myocardial infarction. Describe briefly anatomical distribution, pathological finding and diagnostic test of a myocardial infarction. (2+2+3+3)
5. What is Disseminated Intravascular Coagulation (DIC). Discuss briefly the causes, pathological and diagnostic finding in a patient presenting with DIC to ED. (2+2+3+3)
6. Discuss briefly the differences between inflammatory and non-inflammatory diarrhea. Describe the common causative infections and treatment of diarrhea. (4+6)
7. What are the common causes, factors increasing the risk, clinical features and diagnosis of acute pyelonephritis presenting to ED. (2+2+3+3)
8. What is Hospital Emergency Incident Command System. (HEICS). Describe briefly how will you act if 30 victims from a bus accident are shifted to your hospital during your shift at 11.00am. (2+8)
9. Describe the oxyhemoglobin dissociation curve with its clinical implications. How do you determine the oxygen saturation and content. What is the clinical significance (4+3+3)

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