

**Q.P.CODE:196-NR**

DR NTR UNIVERSITY OF HEALTH SCIENCES:: VIJAYAWADA  
M.D. DEGREE EXAMINATION – APRIL, 2018  
EMERGENCY MEDICINE  
Paper-I – Basic Sciences as relevant to Emergency Medicine

Time : 3 Hours

Max. Marks: 100

Note : Answer all questions  
All questions carry equal marks  
Draw neat diagrams wherever necessary

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WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Discuss the causes of respiratory acidosis and mechanism of compensation. What would be the emergency department management?
- 2) Describe the anatomy of the larynx. How would you manage a difficult airway?
- 3) Describe ECG changes of hypokalemia and discuss management
- 4) Enumerate drugs used for procedural sedation and briefly discuss their pharmacology
- 5) What are the common organisms implicated in gram negative sepsis? Discuss different classes of antibiotics available for management of such a case.
- 6) Discuss physiology of thyroid hormone production and clinical features of thyroid storm.
- 7) Pathophysiology of hypertensive crises and drugs used in treatment.
- 8) Draw a diagram of the blood supply of the nasal cavity. What are the causes and treatment of epistaxis?
- 9) Discuss the utility of cardiac enzymes in the diagnosis and prognostication of acute coronary syndromes.
- 10) Draw a diagram of compartments of the leg and mention clinical features and management of compartment syndrome.

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