

196-NR

M.D. DEGREE EXAMINATION – APRIL, 2014

EMERGENCY MEDICINE

Paper-I – Basic Sciences as relevant to Emergency Medicine (Applied Anatomy; Clinical Physiology; Clinical Biochemistry; Clinical Pharmacology; Clinical Microbiology; Clinical Pathology; Research Methodology; Biostatistics)

Time : 3 Hours

Max. Marks: 100

Note : Answer all questions

All questions carry equal marks

Draw diagrams wherever necessary

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WRITE SHORT ESSAYS ON THE FOLLOWING:

- 1) Describe the applied anatomy of the liver and portal circulation with emphasis on portosystemic anastomosis. Draw a neat labeled diagram.
- 2) Discuss the pharmacology of anti-arrhythmic drugs.
- 3) Write the basic anatomy and physiology of the adrenal gland and enumerate the clinical features of adrenal crisis.
- 4) Discuss the physiological changes in various organ systems in normal pregnancy.
- 5) Describe the pathophysiology of acute coronary syndrome and the correlation with ECG changes and cardiac enzymes.
- 6) Definition of randomized controlled trial and methods used for conducting it.
- 7) Causes, clinical features and diagnosis of acute and chronic respiratory acidosis.
- 8) Discuss sensitivity and specificity.
- 9) Discuss pathophysiology of septic shock and immediate management in the emergency medicine department.
- 10) Toxicity and management of paracetamol overdose.

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