

**M.D. DEGREE EXAMINATION****BRANCH V – PHYSIOLOGY****PAPER I – GENERAL PHYSIOLOGY, BLOOD, DIGESTION AND  
TISSUES OF THE BODY***Q.P. Code: 202018***Time : Three Hours****Maximum : 100 Marks****I. Essay Questions:****(2 x 15 = 30)**

1. Discuss in detail about the body fluid compartments. Add a note on mechanism of oedema.
2. Discuss the methods to study the gastro-intestinal motility. What are the movements exhibited by small intestine?

**II. Short notes:****(10 x 5 = 50)**

1. Glycogen -lactic acid system.
2. Neuromuscular blocking agents.
3. Electromyography.
4. Molecular mimicry.
5. Acute phase proteins.
6. Defecation reflex.
7. Haemoglobinopathies.
8. Fibrinolytic system.
9. Antigen presenting cells.
10. Humoral immunity.

**III. Reasoning Out:****(4 x 5 = 20)**

1. Omeprazole is an inhibitor of parietal cell  $H^+$  -  $K^+$  pump.
2. Pharmaco-mechanical coupling in smooth muscle contraction.
3. Faecal incontinence in patients with trauma, prolapse of rectum and in long standing diabetes.
4. Calcium homeostasis is important in malignant hyperthermia.

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