

**M.D. DEGREE EXAMINATION**  
**BRANCH I – GENERAL MEDICINE**  
**PAPER I – APPLIED BASIC SCIENCES IN GENERAL MEDICINE**

*Q.P. Code: 202000*

**Time : Three Hours**

**Maximum : 100 Marks**

**Write Notes on:**

**I. ANATOMY: (4 x 5 = 20)**

1. Gut Hormones.
2. Pathway of proprioceptive impulses.
3. Bowman's capsule.
4. Extent of different parts of pleura, nerve supply and its recesses.

**II. PHYSIOLOGY: (4 x 5 = 20)**

1. Counter current mechanism.
2. Components of blood and its uses.
3. Neuro transmitters.
4. Cells of pancreas.

**III. BIO-CHEMISTRY: (3 x 5 = 15)**

1. Biotin.
2. Bence Jones protein.
3. NADPH (Nicotinamide Adenine Dinucleotide Phosphate Hydrogen).

**IV. PHARMACOLOGY: (3 x 5 = 15)**

1. PC SK9 Inhibitors. (Proprotein convertase subtilisin kexin 9 inhibitors).
2. Newer SGLT2 Inhibitors (sodium glucose co transporters 2 inhibitors).
3. Combination anti retro viral therapy.

**V. PATHOLOGY: (3 x 5 = 15)**

1. Bridging necrosis.
2. Myeloma kidney.
3. Molecular genetics of lung carcinoma.

**VI. MICROBIOLOGY: (3 x 5 = 15)**

1. Immuno histochemistry.
2. Fusariosis.
3. Serum galactomannan test.

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