

**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. The enteric nervous system.
2. Blood supply of brain stem.
3. Collecting system of kidney.
4. Sites of Porto systemic shunts.

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

1. Estimation of Glomerular filtration rate.
2. Osborne waves.
3. Physiology of consciousness.
4. Sertoli cells and spermatogenesis.

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

1. Brain natriuretic peptide.
2. Acid phosphatases.
3. Cyclooxygenase pathway.

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

1. Biosimilars – the future of Biological drugs.
2. DPP -4 inhibitors. (Di peptidyl Di peptidase 4 inhibitors).
3. Echinocardins.

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

1. Genetic anticipation.
2. Urine Microscopy.
3. Autoimmune Poly endocrine syndrome.

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

1. Paromyxoviruses.
2. Soil transmitters.
3. C1 inhibitor Deficiency.

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