

**M.S. DEGREE EXAMINATION**  
**BRANCH I – GENERAL SURGERY**  
**APPLIED BASIC SCIENCES IN GENERAL SURGERY**  
*Q.P. Code : 222214*

**Time: Three Hours**

**Maximum: 100 marks**

**Write notes on:**

**I. ANATOMY (4X5=20)**

1. Anatomy of Inguinal canal.
2. Subphrenic spaces.
3. Lymphatic drainage of testis.
4. Thyroglossal cyst.

**II. PHYSIOLOGY (4X5=20)**

1. Physiological effects of total gastrectomy.
2. Events that occur during Defecation.
3. Functions of spleen.
4. Hyper Parathyroidism.

**III. BIO-CHEMISTRY (3X5=15)**

1. Synthesis of Thyroid Hormones.
2. Biochemical changes in obstructive Jaundice.
3. KREB's cycle.

**IV. PHARMACOLOGY (3X5=15)**

1. BEVACIZUMAB.
2. Antibiotic Prophylaxis in surgery.
3. Dopamine and Dolbutamine.

**V. MICROBIOLOGY (3X5=15)**

1. Helicobacter.
2. Gas Gangrene.
3. Tumour Antigens.

**VI. PATHOLOGY (3X5=15)**

1. Amoebic liver abscess.
2. Malignant Melanoma.
3. Benign breast Diseases.

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