

**B.OPTOM**  
(New Syllabus 2015-2016)

**FIRST YEAR**

**PAPER I – GENERAL ANATOMY, GENERAL PHYSIOLOGY AND  
BASIC BIOCHEMISTRY**

*Q.P. Code: 802701*

**Time: Three Hours**

**Maximum: 100 Marks**

**Answer all questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the lungs in detail – position, coverings, lobes, fissures and blood supply.
2. Define blood pressure. Write about regulation of blood pressure and the factors affecting blood pressure.
3. Describe in detail about the steps involved in glycolysis.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Anatomy of liver.
2. Functions of proteins.
3. Physiology of thyroid gland.
4. Structure of a nephron.
5. Functions of gastric juice.
6. Classification of enzymes.
7. Skin and its appendages.
8. Cardiac cycle.

**III. Short answers on:**

**(10 x 3 = 30)**

1. Types of muscles.
2. Suprarenal glands.
3. Neuromuscular junction.
4. Parts of ear.
5. Types of white blood cells.
6. Name three disaccharides and their composition.
7. Triglycerides.
8. Name three functions of kidney.
9. Name the pancreatic hormones with their source.
10. Give any three functions of copper.