

**B.Sc. OPERATION THEATRE AND ANAESTHESIA TECHNOLOGY**  
(New Syllabus 2014-2015)

**FIRST YEAR**

**PAPER I – APPLIED BASIC SCIENCES**

*Q.P. Code: 801106*

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer All Questions.**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Classify Muscles. Explain in detail about Deltoid Muscle.
2. Explain the events of Cardiac cycle.
3. Write in detail about the causes and mechanism of Cell injury. Add a note on Irreversible cell Injury.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Explain features of Clavicle with diagram.
2. Micturition.
3. Chronic Inflammation.
4. Neuromuscular Junction.
5. Muscles of Respiration.
6. Functions of Protein.
7. Pericardium.
8. Hypersensitivity reactions- type I and type IV.

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Define a) Blood pressure                      b) Systolic Blood Pressure  
                    c) Diastolic Blood Pressure
2. Functions of CSF.
3. Origin, Insertion and Blood supply of Deltoid Muscle.
4. Auscultatory areas.
5. Functions of Calcium.
6. Buffers.
7. Hyperkalemia.
8. Situation, Blood Supply and Nerve supply of Heart.
9. Classification of Enzymes.
10. Define Neoplasia. Mention any four Carcinogenic Agents.

\*\*\*\*\*