

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

FIRST YEAR

PAPER I – APPLIED BASIC SCIENCE

Q.P. Code: 801106

Time : Three Hours

Maximum : 100 Marks

Answer All Questions.

I. Elaborate on:

(3 x 10 = 30)

1. Describe the arch of aorta under the following headings: Extent, Relations, Branches and microscopic anatomy.
2. What are Blood groups? Discuss their importance.
3. Describe in detail the mechanism of regulation of blood pH.

II. Write notes on:

(8 x 5 = 40)

1. Erythroblastosis fetalis.
2. Gastric Emptying.
3. Explain the functions of plasma proteins.
4. Origin, course and Branches of Right coronary artery.
5. Functions of Posterior Pituitary hormones.
6. Role of Bile in digestion.
7. Formation of superior venacava.
8. Functions of Sodium and add a note on renin-angiotensin-aldosterone system.

III. Short Answers on:

(10 x 3 = 30)

1. Action of Parathormone on Bone.
2. Functions of Vitamin-K.
3. Classify leucocytes and write its normal percentage.
4. Define Neuromuscular Junction.
5. Tributaries of coronary sinus.
6. Nerve supply of larynx.
7. Valves of the heart.
8. Applied aspects of Pleura.
9. Causes of Metabolic acidosis.
10. Define (a) Normality (b) Molarity (c) Molality