

**B.Sc. CRITICAL CARE TECHNOLOGY**  
(New Syllabus 2015-2016)

**FIRST YEAR**

**Paper II – PHYSIOLOGY AND BASIC PHYSICS**

*Q.P Code: 801232*

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer All Questions**

**I. Elaborate on:**

**(3 x 10 = 30)**

1. Describe the various phases of gastric secretion and mention the functions of stomach.
2. Define Erythropoiesis. List the different stages of erythropoiesis.
3. Describe the different stages of urine formation.

**II. Write Notes on:**

**(8 x 5 = 40)**

1. Name the hormones of parathyroid gland and add a note on calcitonin.
2. Composition of Blood.
3. Erythrocyte Sedimentation Rate.
4. Functions of bile.
5. Heart Sounds.
6. Mechanism of Respiration.
7. Storage of medical gases in cylinders.
8. What is piped distribution system?

**III. Short Answers on:**

**(10 x 3 = 30)**

1. Oxygen debt.
2. Properties of cardiac muscle.
3. What is meant by Arterial blood gas analysis?
4. What is respiratory acidosis and write the causes for it?
5. Mention the functions of large intestine.
6. Define cardiac cycle and mention the systolic events.
7. What is acute renal failure?
8. Functions of platelets.
9. Accommodation reflex.
10. Transport of CO<sub>2</sub>.

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