

[LL 0817]

AUGUST 2017

Sub.Code :1232

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 events happening during a cardiac cycle.
2. Describe the neural regulation of respiration.
3. Describe the various uterine changes that happen during menstrual cycle.

II. Write Notes on:

(8 x 5 = 40)

1. Describe the mechanism of breathing.
2. Describe the process of endocytosis in a cell.
3. What are the factors affecting diffusion of gases across the respiratory membrane?
4. Mention the differences between first and second heart sounds.
5. Describe the properties of the three states of matter.
6. Describe the functions of plasma proteins.
7. Measurement of blood pressure.
8. Describe the process of osmosis.

III. Short Answers on:

(10 x 3 = 30)

1. What do you mean by homeostasis?
2. Mention the functions of cerebrospinal fluid.
3. Mention the steps in spermatogenesis.
4. Mention functions of insulin.
5. Mention the afferent, efferent and centre for micturition reflex.
6. Functions of bile indigestion.
7. What do you mean by vital capacity? What is the normal value?
8. Draw an ECG and mark the different waves and intervals.
9. Mention functions of blood.
10. What do you mean by metabolic acidosis? Mention some causes.
