

[AHS 0321]

MARCH 2021

Sub. Code: 1242

(AUGUST 2020 EXAM SESSION)

B.Sc. CRITICAL CARE TECHNOLOGY**FIRST YEAR (From 2018-2019 onwards)****PAPER II – PHYSIOLOGY+BASIC PHYSICS*****Q.P. Code : 801242*****Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. Define Erythropoiesis. Describe in detail the factors influencing erythropoiesis.
2. Define Cardiac cycle. Explain with the help of diagram the pressure and volume changes during cardiac cycle.
3. Name the anterior pituitary hormones. Elaborate the functions of growth hormone and add a note on dwarfism.

II. Write notes on:**(8 x 5 = 40)**

1. Describe the conducting system of heart.
2. Classify Hypoxia. Explain any two of them.
3. Write notes on Phagocytosis.
4. Describe the digestion of carbohydrates.
5. Explain the structure and functions juxta glomerular apparatus.
6. Stages of spermatogenesis
7. Write about a. Pascal's law b. Boyle's law c. Dalton's law
8. Functions of cerebellum

III. Short answers on:**(10 x 3 = 30)**

1. Mention any three functions of blood
2. What are the types of neuroglia?
3. Define blood pressure. What is the normal blood Pressure in an adult?
4. Name the muscles of respiration.
5. List any three functions of liver
6. Draw a labelled diagram of nephron.
7. List any three properties of reflexes.
8. Name the errors of refraction.
9. Write any three contraceptive methods in females.
10. What is Laplace law?
