

[AHS 0321]

MARCH 2021

Sub. Code: 1401

(AUGUST 2020 EXAM SESSION)

B.Sc. CARDIO PULMONARY PERFUSION CARE TECHNOLOGY**FIRST YEAR (Regulations 2010-2011 & 2014-2015)****PAPER I – ANATOMY AND PHYSIOLOGY*****Q.P. Code : 801401*****Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. Discuss in detail the composition and functions of blood.
2. Describe the anatomy of heart under the following headings:
(a) Location (b) Coverings (c) Chambers (d) Blood supply
3. Define Electrocardiogram (ECG). Name the ECG leads. Describe the waves, segments and intervals of normal Lead II ECG.

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

1. Describe the bones forming the bony thoracic cage.
2. Define mediastinum. What are the structures present in it?
3. Name the plasma proteins and write their functions.
4. Explain the mechanism of breathing.
5. Write about the conducting system of heart.
6. How is arterial blood pressure regulated?
7. Explain the mechanism of urine formation.
8. Define cardiac cycle and write about the phases of cardiac cycle.

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

1. Name the sinuses of pericardium.
2. Name the auscultation areas of heart.
3. Define vital capacity.
4. Define exocytosis.
5. Define alkalosis.
6. Define synapse.
7. Mention the renal function tests.
8. Write about the blood supply to liver.
9. Name the valves of the heart.
10. Name the hormones secreted by anterior pituitary.
