

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 1122]

NOVEMBER 2022

Sub. Code: 3002

**B.Sc. CLINICAL NUTRITION
FIRST YEAR (Regulation 2018-2019)
PAPER II – HUMAN PHYSIOLOGY
Q.P NO. 803002**

Time: Three Hours

Answer All questions

Maximum: 100 Marks

I. Elaborate on :

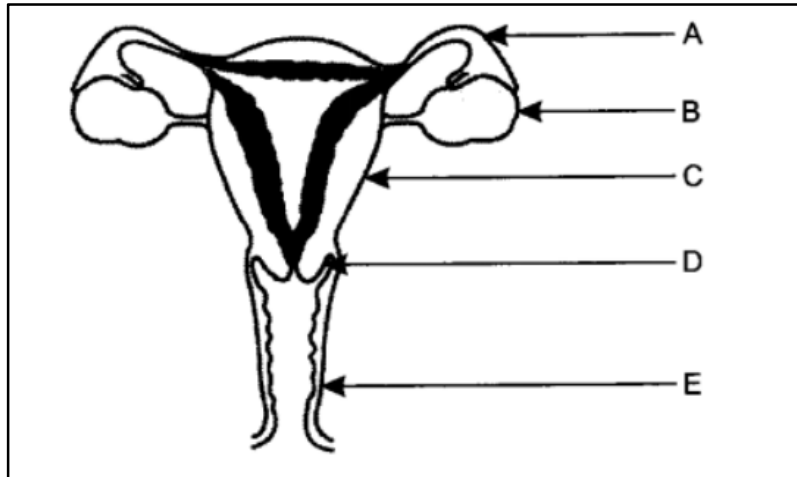
(3X10=30)

1. Draw structure of nephron and explain the mechanism of urine formation.
2. Describe the conducting system of heart with suitable diagram.
3. Define Cardiac output. Write about the factors regulating the cardiac output.

II. Write Notes on :

(8X5=40)

1. How does exchange of gases take place in alveoli of lungs?
2. Draw a neutrophil. Describe its functions.
3. Phases of menstrual cycle.
4. What are the functions of skin?
5. Mechanism of skeletal muscle contraction.
6. Name the parts labelled A, B, C, D, E and their functions.



7. What is placenta? List the functions of placenta.
8. List the important functions of lymphatic system.

P.T.O.

III. Short Answers on :

(10X3=30)

1. Name the hormones secreted by adrenal medulla.
2. Effect of sympathetic activation on heart.
3. Define Erythropoiesis.
4. What are the components of blood?
5. What are neuroglial cells?
6. What is haemophilia?
7. Structure of Sarcomere.
8. What is anaemia?
9. What is Wallerian degeneration and how is it caused?
10. What is synapse?
