

7951

4

- (b) Describe the structure of ovary with the help of a suitable diagram (6)

6. Write short notes on any three of the following:

(a) Spermatogenesis

(b) Juxtaglomerular apparatus

(c) Structure of human heart

(d) Types of epithelial tissues (5, 5, 5)

(1000)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 7951 I

Unique Paper Code : 2234001001

Name of the Paper : GE-1; Human Physiology

Name of the Course : B.Sc./B.Com /B.A Theory Examination, Nov-Dec 2024

Semester : III, NEP-UGCF 2022

Duration : 2 Hours Maximum Marks : 60

**Instructions for Candidates**

1. Write your Roll. No. on the top immediately on receipt of this question paper.
2. Attempt Four questions in all. Question No.1 is compulsory.
3. Draw well labelled diagrams wherever required

1. (a) Define each of the following terms: (4)

(i) Chyme

P.T.O.

(ii) Ultrafiltration

(iii) Synapse

(iv) Stroke volume

(b) Differentiate between each of the following pairs:  
(8)

(i) Bone and Cartilage

(ii) Leydig cells and Sertoli cells

(iii) External Respiration and Internal Respiration

(iv) Tricuspid valve and Bicuspid valve

(c) Give the location and function of each of the following:  
(3)

(i) Carbonic anhydrase

(ii) Crypts of Lieberkühn

(iii) Nissl granules

2. (a) Describe the structure and function of different types of muscular tissue in the human body with suitable diagrams (8)

(b) Discuss the propagation of nerve impulse in myelinated nerve fibres (7)

3. (a) Give an account of digestion and absorption of fats in the alimentary canal (10)

(b) Describe the structure of nephron with the help of a detailed diagram (5)

4. (a) Discuss in detail the process of transport of oxygen in the blood. (9)

(b) Describe the structure of the respiratory tract and lungs with suitable diagrams (6)

5. (a) Give a detailed account of the composition of human blood. (9)