

3576

4

6. Write short notes on **any three** of the following :
(3×5=15)
- (a) Exocrine glands
 - (b) External respiration
 - (c) Spermiogenesis
 - (d) Production and functions of gastric HCL

(1000)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 3576 I

Unique Paper Code : 2234001001

Name of the Paper : GE-I : Human Physiology

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

Semester : I, NEP-UGCF

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 necessary.

P.T.O.

1. (a) Define the following terms : (4)
- (i) Lung compliance
 - (ii) Sinoatrial (SA) node
 - (iii) Absolute refractory period
 - (iv) Spermatogenesis
- (b) Differentiate between each of the following pairs : (8)
- (i) Isovolumetric contraction and isovolumetric relaxation
 - (ii) Leydig and Sertoli cells
 - (iii) Smooth and Cardiac muscle tissue
 - (iv) Segmentation and Peristalsis
- (c) Give the location and function of the following : (3)
- (i) Papillary muscles
 - (ii) Oligodendrocytes
 - (iii) Intrinsic factor

2. (a) Discuss the process of oogenesis in the female. (7)
- (b) Describe the various types of cells present in the connective tissue. (8)
3. (a) Draw a well labelled diagram of the neuron. (3)
- (b) Explain in detail the oxygen haemoglobin dissociation curve and the factors affecting the curve. (12)
4. (a) Discuss the correlation between kidney function and structure. (8)
- (b) Discuss the digestion and absorption of carbohydrates in the GI Tract. (7)
5. (a) Give a detailed account of the events of a cardiac cycle. (8)
- (b) Describe the mechanism of muscle contraction as explained by the sliding filament theory. (7)