

4882

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6. Write short notes on *any three* of the following : (3×5=15)

- (a) Exocrine glands
- (b) Production and functions of gastric HCL
- (c) Structural classification of neurons
- (d) Hormonal control of testicular function

(200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4882 J

Unique Paper Code : 2234001001

Name of the Paper : GE-1 : Human Physiology

Name of the Course : B.Sc./ B.Com / B.A. Theory

Exam May-June 2025

Semester : IV, 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.
3. Question No. 1 is compulsory.
4. Draw well-labelled diagrams wherever necessary.

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

(i) Absolute refractory period

P.T.O.

(ii) Isovolumetric contraction

(iii) Portal Triad

(iv) Osteoclasts

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

(i) Graded potential and Action potential

(ii) Sertoli cells and Leydig cells

(iii) Respiratory zone and Conducting zone

(iv) Paracellular and Transcellular reabsorption

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

(i) Intercalated discs

(ii) Brunner's glands

(iii) Macula Densa

2. (a) Describe the various types of epithelial tissues present in the body. (6)

(b) Explain the process of muscle contraction at the molecular level. (9)

3. (a) Discuss the correlation between kidney function and structure. (8)

(b) Discuss the digestion and absorption of carbohydrates in the GI Tract. (7)

4. (a) Comment upon the various modes of oxygen transport in the blood. (7)

(b) Explain the events of a cardiac cycle. (8)

5. (a) Describe each phase of the uterine cycle and correlate them with the events of the ovarian cycle. (9)

(b) Enumerate the composition of blood. (6)