

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2023

(Regular/Improvement/Supplementary)

PSYCHOLOGY

GPSY3C05T: HUMAN PHYSIOLOGY

Time: 2 Hours

Maximum Marks: 60

SECTION A: Answer the following questions. Each carries *two* marks.

(Ceiling 20 Marks)

1. Differentiate between fast pain and slow pain.
2. State the Trichromatic theory of colour vision.
3. State the causes of the following diseases: a) Acromegaly b) Cretinism
4. Comment on Pacinian corpuscles.
5. What is proprioception?
6. What are statoreceptors?
7. What is macula lutea? Mention its significance in vision.
8. What is Presbyopia? How can it be corrected?
9. Name any two auditory defects and their causes.
10. Define somatosensory cortex.
11. What are ear ossicles? Mention their functions.
12. Comment on olfactory epithelium.

SECTION B: Answer the following questions. Each carries *five* marks.

(Ceiling 30 Marks)

13. What is placenta? Discuss its role as an endocrine organ.
14. Explain the mechanism of thermo reception.
15. Describe the role of Adrenal gland in endocrine system.
16. Explain the arrangement of neurons in the ascending path ways of somatosensory communication.
17. With the help of a diagram describe the structure of human Cochlea.
18. Describe taste pathways and transmission of signals into the central nervous system.
19. Explain the physiology of olfaction and transmission of signals into the central nervous system.

SECTION C: Answer any *one* question. Each carries *ten* marks.

20. Write an essay on the role of Hypothalamus and Pituitary gland in endocrine regulation.
21. With the help of a diagram describe the structure of human eye and explain physiology of vision.

(1 x 10 = 10 Marks)