

**SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2024****(Regular/Improvement/Supplementary)****PSYCHOLOGY****GPSY2C03T: HUMAN PHYSIOLOGY****Time: 2 Hours****Maximum Marks: 60****SECTION A: Answer the following questions. Each carries *two* marks.****(Ceiling 20 Marks)**

1. What are the major functions of basal ganglia?
2. Write a brief note on EEG.
3. What are the components of brain stem?
4. Differentiate between alpha and beta brain waves.
5. How does increased dopamine secretion influence the limbic-basal ganglia circuit?
6. Define the blood-brain barrier.
7. What are the functions of the spinal cord?
8. What do you mean by the dominant hemisphere of the brain?
9. Why is MRI better than CT?
10. Write a note on the location and function of the primary motor cortex.
11. What are the major functions of mid brain?
12. Associate Broca's area with speech.

**SECTION B: Answer the following questions. Each carries *five* marks.****(Ceiling 30 Marks)**

13. Discuss different types of reflexes.
14. Discuss the importance of Wernicke's area.
15. Write notes on neurotransmitters and their functions.
16. Discuss different types of Aphasia.
17. Explain the characteristics of REM sleep.
18. Write a detailed note on fore-brain.
19. Discuss the principles and applications of PET.

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

20. Discuss the structure and motor functions of the cerebellum with the help of suitable diagrams.
21. Explain synaptic transmission in chemical and electrical synapses. Use suitable diagrams.

**(1 x 10 = 10 Marks)**