

FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2023

(Regular/Improvement/Supplementary)

PSYCHOLOGY

GPSY4C07T: HUMAN PHYSIOLOGY

Time: 2 Hours

Maximum Marks: 60

**SECTION A: Answer the following questions. Each carries *two* marks.
(Ceiling 20 Marks)**

1. Compare bulimia and anorexia.
2. What is the role of ADH in water regulation in the body?
3. What are the major differences between male and female hypothalamus?
4. Define obesity in terms of BMI.
5. Write a brief note on brain infecting bacteria.
6. What are the fates of Mullerian ducts in male and female fetuses?
7. What is brain tumor?
8. Write a note on Pica.
9. Write a brief note on female reproductive hormones.
10. Define cerebral ischemia.
11. How does female brain differ from male brain?
12. Explain glucostatic theory of hunger.

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

13. Discuss the role of hormones in the regulation of food intake.
14. Explain the major hormonal and sexual developmental changes during puberty in females.
15. Discuss the causes and symptoms of Alzheimer's disease.
16. Discuss the functions of the frontal lobes of human brain.
17. Differentiate between Grand mal and Petit mal epilepsy.
18. How does hypothalamus influence sexual behaviour?
19. Write an account on the causes and treatment of obesity.

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

20. Discuss the behavioural functions of the hypothalamus and associated limbic structures. Add notes on reward and punishment centres.
21. Differentiate hypovolemic and cellular dehydration thirst and explain the mechanisms of development and regulation of both types of thirst.

(1 × 10 = 10 Marks)