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K – 2459

Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, March 2021

First Degree Programme under CBCSS

Zoology

Complementary Course for Psychology

ZO 1331.2 : PHYSIOLOGY OF MOTIVATION

(2019 Admission - Regular)

Time : 3 Hours

Max. Marks : 80

PART – A

I. Answer **all** the following questions (in **one** or **two** sentences. **one** mark each).

1. Anorexia nervosa
2. GABA
3. Coolidge effect
4. Insomnia
5. ARAS
6. Jet lag
7. SADS
8. Satiety

P.T.O.

9. Sexual orientation

10. Leptin.

(10 × 1 = 10 Marks)

PART – B

II. Answer **any eight** of the following (not to exceed one paragraph. Each carries 2 marks).

11. Distinguish REM sleep from NREM sleep.

12. Define obesity. What are the causes for obesity.

13. Explain the physiology of thirst satiety.

14. Explain the role of arcuate nucleus in the regulation of feeding.

15. What are the functions of sleep?

16. Explain the internal cues for feeding.

17. Discuss lateral hypothalamic syndrome.

18. Explain the role of hypothalamus in sleep process.

19. What do you mean by taste aversion learning?

20. Explain the physiological activities during sleep.

21. Explain external control of sexual behaviour.

22. Discuss slow wave sleep disorders.

23. What is the role of suprachiasmatic nucleus in sleep?

24. What is the function of orbitofrontal cortex related to eating?

25. What is the role of dopamine in sexual behaviour?
26. What is serotonergic system?

(8 × 2 = 16 Marks)

PART – C

III. Answer **any six** of the following (Not to exceed 120 words. Each question carries 4 marks.

27. What are brain waves? Correlate brain waves with sleep.
28. How do neural centres influence mechanical process of feeding?
29. Distinguish between hypovolemic and cell dehydration thirst.
30. Discuss biological perspectives on dreaming.
31. How does the male hypothalamus differ from female hypothalamus?
32. Briefly discuss various types of sleep disorders.
33. Explain Renin-angiotensin system.
34. How does temperature regulate food intake?
35. Discuss the role of chemicals in the intervention of sexual behaviour.
36. Compare hormonal components in male and female reproductive system.
37. Discuss circadian rhythm and its disruption.
38. What is eating disorder? What are the important eating disorders?

(6 × 4 = 24 Marks)

PART – D

- IV. Answer **any two** of the following. (Each question carries **15** marks).
39. Discuss the mechanism and neural control of sleep.
 40. Discuss the role of hormones in the regulation of food intake.
 41. Explain the neuroscience of drinking.
 42. Define sex and discuss the role of hormones in sexual behaviour.
 43. Explain the mechanism of sleep waking rhythm. Add a note on sleep factors.
 44. Discuss dynamics of sexual behaviour in detail.

(2 × 15 = 30 Marks)
