

Reg. No. :

Name :

Fourth Semester B.Sc. Degree Examination, August 2022

First Degree Programme Under CBCSS

Zoology

Complementary Course for Psychology

ZO 1431.2 : PHYSIOLOGY OF EMOTION AND COGNITION

(2019 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

1. Answer all questions with two diagnostic features.

1. Aggression
2. Stress
3. Attitude learning
4. Emotional breakdown
5. Limbic system
6. Spinal memory
7. Tompson's work
8. Cerebellum
9. Hebbian theory
10. Psuedolearning

(10 × 1 = 10 Marks)

P.T.O.

II. Answer **any eight** questions in two sentences.

11. Neurosis
12. Frontal lobe
13. Semantic memory
14. Hippocampus
15. Anterograde amnesia
16. Broca's area
17. Hemispheric lateralization
18. Arousal hypothesis
19. Engram
20. Orbitofrontal cortex
21. Amnesic syndrome
22. Cognitive impairment
23. Short term memory
24. Fear
25. Working memory
26. Korsakoff's syndrome

(8 × 2 = 16 Marks)

III. Answer **any six** of the following.

27. Describe stress related disorders
28. Citing Lashley's works explain memory in brain damaged humans.

29. Explain anatomical basis of emotion
30. Describe the role of cortex in learning.
31. Explain Pavlov's experiments
32. Explain memory retrieval
33. Describe Kohler and Skinner experiments
34. Briefly outline theories of forgetting.
35. Explain the neural basis of pleasure
36. Describe the hormones that influence aggression
37. Explain synaptic basis of learning
38. Describe Kluver Bucy syndrome

(6 × 4 = 24 Marks)

IV. Answer any two of the following.

39. Explain physiological responses of the body to stress.
40. Explain structure of limbic system and its role in emotion
41. Write an essay on the types and stages of sleep
42. Explain the evolutionary theories of emotion
43. Explain in detail the neural mechanisms of sensitization and Habituation
44. Explain the mechanism of criteria of memory

(2 × 15 = 30 Marks)