Reg. No ....   Name **23U249**

B. Sc. DEGREE END SEMESTER EXAMINATION : MARCH 2023
SEMESTER 2 : PSYCHOLOGY
COURSE : **19U2CPBHS2: BIOLOGICAL BASIS OF BEHAVIOUR - PAPER II**
(For Regular - 2022 Admission and Improvement / Supplementary – 2021/2020 Admissions)

Time : Three Hours   Max. Marks: 75

PART A
Answer All (1 mark each)

1. When the parents cross to produce offspring/progeny, the first progeny is called ------------------------.
2. Gonads of female are called ------------------------.
3. A hormone that is essential for the secretion of milk in the mammary glands of mammals is ----------------------.
4. In what stage of the general adaptation syndrome is there a breakdown to internal organs and a weakening of the immune system?
5. What is the phenotypic ratio of dihybrid cross?
6. The four nitrogen bases of DNA are ------------------------.
7. Which brain wave is considered as deep sleep wave?
8. Brain wave with moderate amplitude waves with a frequency between 8 and 13 Hz is called ----------------------.
9. Gonads of male are called ----------------------.
10. Which adrenal gland releases epinephrine?

                                                                              (1 x 10 = 10)

PART B
Answer any 8 (2 marks each)

11. Define Stress.
12. Explain Whitten Effect?
13. Distinguish between genotype and phenotype.
14. Define mutation
15. What are mutagens?
16. What is the function of antidiuretic hormone?
17. Why X-linked recessive disorders are rare in females?
18. Explain REM rebound.
19. What are the physiological reactions associated with orientation reaction?
20. What is Coolidge Effect?

                                                                              (2 x 8 = 16)

PART C
Answer any 5 (5 marks each)

21. Explain the stress response in detail.
22. Explain sexual response cycle.
23. Write a short note on sex linked, sex influenced and sex limited traits.
24. Explain circadian rhythm in detail.

25. Distinguish Euploidy and Anueploidy.

26. What are the types of point mutation?

27. What are the psychological and physiological indicators of stress?

(5 x 5 = 25)

PART D
Answer any 2 (12 marks each)

28. Explain the physiology of sexual behaviour.

29. Elucidate genetic mutation disorders.

30. Explain endorphins and emotions in detail.

31. Explain chromosomal mutation and its type.

(12 x 2 = 24)