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BACHELOR'S DEGREE (C.B.C.S) EXAMINATION, MARCH 2024 2023 ADMISSIONS REGULAR

SEMESTER II - Psychology COMPLEMENTARY COURSE 1 ZY2B02B23 - Biological Basis of Behaviour II

Time: 3 Hours Maximum Marks: 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

- 1. Write a short note on heredity? Explain why children looks like their parents?
- 2. Explain four types of nitrogen bases of DNA? Describe the pairing of these Nitrogenous bases in DNA?
- 3. Write down and explain the phenotypic ratio of the F2 generation in a monohybrid cross?
- 4. Mention the physiological mechanisms involved in hunger?
- 5. Explain the external cues exhibited in resulting the desire for sexual activity?
- 6. Explain the role of pituitary gland in puberty period of females and discuss the development of secondary sexual characteristics during puberty period?
- 7. List the anatomical changes during stress.
- 8. State any four stress related diseases.
- 9. Discuss on how stress and emotions are connected.
- 10. Write a short note on Circadian rhythms and biological clock?
- 11. Indicate the effects of over arousal with examples.
- 12. Summarise on the different uses of EEG.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

- 13. Describe the principles of Mendelian Inheritance?
- 14. Write a short note on Autosomal anomalies?
- 15. Explain the causes of gene mutation? Write down how Somatic Mutations differs from Gametic Mutations?
- 16. Explain in detail the emotional symptoms of stress.
- 17. Describe the physiological aspects of stress and strain.
- 18. Explain with examples the different types of stress.
- 19. Explain the role of hypothalamic pituitary adrenal system in stress.
- 20. Are dreams connected to REM sleep? If so, how? Explain circadian cycle?
- 21. Discuss on the physiological changes during sleep.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

- 22. Give a detailed account on the Characters and contrasting traits Mendel used for his study to derive the principles of genetics?
- 23. Explain the role of hypothalamus in fear and anger?
- 24. Elaborate on the hormonal, physiological and anatomical indicators of stress. Explain how stress overload can cause diseases with examples.
- 25. Differentiate between arousal and wakefulness. Discuss on the biological functions of sleep.