



*K. Sambal*

**Avinashilingam Institute for Home Science and Higher Education for Women**  
Deemed to be University Estd. u/s 3 of UGC Act 1956, Category A by MHRD (now MoE)  
Re-accredited with A++ Grade by NAAC. CGPA 3.65/4, category I by UGC  
Coimbatore - 641 043, Tamil Nadu, India

**Bachelor's Degree Examination – November 2025**  
**I Semester**

**Class : I UG / 2024 Batch**  
**Major : Psychology**

**Time : 3 Hours**  
**Max. Marks : 100**

**23BPSCO2 Introduction to Biopsychology**

**Course Outcomes:**

**Course Outcomes:**

At the end of the course, students will:

- CO1:Appreciating the biological bases of human behaviour including neural, biochemical, evolutionary, and genetic mechanisms.
- CO2:Developing critical thinking to use scientific techniques for biological psychology and developing an awareness of ethical issues accompanying them.
- CO3:Having basic knowledge about the structures of human brain, their functions and impact on human behaviour.
- CO4:Understanding biological mechanisms involved in psychological processes such as learning, memory, emotion, motivation, sleep and arousal.
- CO5:Inculcating an applied perspective on psychopathology including disorders such as Amnesias,Korsakoff's Psychosis, Alzheimer disease, and Anorexia.
- CO6: Realizing the complex interplay of biological factors with psychological, social and cultural in shaping human behaviour.

**Part A**

**10 x 1 = 10**

**Choose the Correct Answer**

1. All reinforcing experience stimulate this neurotransmitter in the nucleus accumbens CO1 K1  
a. Anandamide                      b. GABA                      c. Dopamine                      d. Serotonin
2. The primary function of mitochondria is \_\_\_\_\_. CO1 K1  
a. protein synthesis                      b. DNA storage                      c. energy production                      d. Digestion
3. Which of the following is not considered a hallucinogen? CO2 K2  
a. LSD                      b. Diazepam                      c. Inhalants                      d. Marijuna
4. A lesion in which part of the brain will suppress (step) eating behavior. CO2 K3  
a. Ventromedial hypothalamus                      b. Reticular Activate System  
c. Lateral hypothalamus                      d. Amygdales
5. The major structure that connects the two hemispheres is called the CO3 K1  
a. Anterior commissure                      b. Corpus callosum  
c. Genu                      d. Fornix
6. The term psychoactive refers to CO3 K3  
a. The psychology of physical activity.                      b. A particularly active psychopath.  
c. A drug that alters mood, cognition and/or behaviour.                      d. A drug-induced hallucination.
7. Testosterone can increase all of the following types of behavior except CO4 K3  
a. aggressiveness                      b. eating behavior  
c. male sexual behavior                      d. female sexual behavior
8. After damage to which of the following structure, problems in writing, reading and doing simple arithmetic problems often manifest CO4 K3  
a. right parietal cortex                      b. left partial association cortex  
c. left and right parietal association cortex                      d. CNS
9. The left temporal lobe contains a region of association cortex called as CO5 K1  
a. cerebral cortex                      b. wernicke's area                      c. sensory cortex                      d. auditory cortex
10. In carrying out the "fight or flight" response, the role of supervisor is assigned to the \_\_\_\_\_. CO5 K4  
a. adrenal gland                      b. pituitary gland

**Part B**  
**Answer ALL questions**

**5 x 6 = 30**

**Each answer should not exceed 400 words or two pages**

- |   |        |
|---|--------|
| 11. a. What is working memory?<br>(or)  | CO1 K1 |
| 11. b. Examine memory and the functioning of brain.   | CO1 K3 |
| 12. a. Write about the artificial intelligence.<br>(or)                                     | CO2 K2 |
| 12.b. Illustrate about the conflict and frustration.  | CO2 K3 |
| 13. a. Write about the significance of emotional intelligence.<br>(or)                      | CO3 K2 |
| 13.b. What are the characteristics of creative people?                                      | CO3 K1 |
| 14. a. Explain about the significance of the Big Five Factor theory of personality.<br>(or) | CO4 K2 |
| 14.b. What are the merits and demerits of projective tests?                                 | CO4 K1 |
| 15. a. Explain about the basic requirements of psychological tests.<br>(or)                 | CO5 K2 |
| 15. b. Exemplify the importance of content and construct validity.                          | CO5 K4 |

**Part C**  
**Answer ALL questions**

**5 x 12 = 60**

**Each answer should not exceed 800 words or four pages**

- |   |        |
|---|--------|
| 16. a. Examine the theories of forgetting.<br>(or)            | CO1 K3 |
| 16. b. Explain about the memory techniques.                   | CO1 K2 |
| 17. a. Analyze the various theories of motivation.<br>(or)    | CO2 K3 |
| 17. b. Demonstrate steps of problem solving.                  | CO2 K2 |
| 18. a. Evaluate the various theories of intelligence.<br>(or) | CO3 K2 |
| 18.b. Discuss about nature and steps in creativity.           | CO3 K2 |
| 19. a. Analyze various theories of personality.<br>(or)       | CO4 K3 |
| 19.b. Evaluate the various personality assessments.           | CO4 K4 |
| 20. a. Illustrate different types of reliability.<br>(or)     | CO5 K4 |
| 20.b. Delineate about the aptitude and interest tests.        | CO5 K5 |

\*\*\*\*\*