

QP CODE: D4BPS2403	(Pages: 2)	Reg. No :
		Name :
FOURTH SEMESTER FYUGP EXAMINATION, APRIL 2026 Discipline Specific Core (DSC) Courses - Major PSY4CJ205 : BIOLOGICAL BASIS OF BEHAVIOUR (Credits: 4)		
Time: 2 Hours	Maximum Marks: 70	
Section A		
Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)		
1. Define cerebrospinal fluid and mention its functions.	BL1	CO1
2. What is experimental ablation?	BL1	CO5
3. Define the endocrine system and mention its main function.	BL1	CO3
4. Describe monozygotic twin.	BL1	CO5
5. Mention the major brain areas affected by drug use.	BL1	CO1
6. Differentiate between NREM and REM sleep.	BL2	CO2
7. What is meant by dominant and recessive alleles?	BL2	CO4
8. Explain the limitation of studying the brain using stimulation methods.	BL2	CO5
9. Define resting potential.	BL1	CO1
10. Describe the importance of the brain in regulating emotions.	BL2	CO1, CO2
Section B		
Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)		
11. Analyse the evolution of behaviour.	BL4	CO4
12. Explain the importance of stereotaxic surgery in neuroscience experiments.	BL2	CO5
13. Analyse the role of excitatory and inhibitory neurotransmitters in maintaining neural balance.	BL4	CO1
14. Explain the major functions of the spinal cord.	BL2	CO1
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15. Analyse the factors that promote brain plasticity.	BL4	CO1
16. Describe role of different brain areas in memory processes.	BL2	CO2
17. Describe the hormones secreted by the thyroid gland and their functions.	BL2	CO3
18. Analyse the relationship between structural and functional imaging techniques.	BL4	CO5
Section C		
Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)		
19. Analyse the structure and functions of the forebrain, midbrain, and hindbrain. Explain how each part contributes to sensory processing, motor control, and higher cognitive functions.	BL4	CO1
20. Explain the biological mechanism related to Learning.	BL2	CO2
CO : Course Outcome		
BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)		