

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
**(For candidates admitted during the academic year 2019 – 2020 & thereafter)**

**SUBJECT CODE: 19PY/MC/BP23**  
**B. Sc. DEGREE EXAMINATION, APRIL 2023**  
**PSYCHOLOGY**  
**SECOND SEMESTER**

**COURSE : MAJOR – CORE**  
**PAPER : BIOLOGICAL PSYCHOLOGY II**  
**TIME : 3 HOURS** **MAX.MARKS:100**

**SECTION – A**

**I. ANSWER ALL QUESTIONS. EACH ANSWER NOT TO EXCEED 50 WORDS.**  
**(10X3=30)**

1. Distinguish totipotent and pluripotent.
2. What is neuroplasticity?
3. How does the idea of allostasis differ from homeostasis?
4. What is transsexualism.
5. Indicate the role of leptin in hunger mechanism.
6. State “sodium specific hunger”.
7. What is semantic dementia?
8. Indicate the role of basal ganglia in memory.
9. What is facial feedback mechanism?
10. Specify the functions of emotions.

**SECTION – B**

**II. ANSWER ANY FIVE QUESTIONS. EACH ANSWER NOT TO EXCEED 250 WORDS.**  
**(5X8=40)**

11. Examine the post natal development in human infants.
12. Explain the neural mechanism of autism.
13. Analyze the brain mechanism in controlling body temperature.
14. Enumerate the factors responsible for maternal behavior.
15. Examine the role of hypothalamus in hunger and satiety.
16. Explain the causes and symptoms in Alzheimers disease.
17. Outline the different types of memory.
18. Explain (i)James Lange and cannon Bard theories of Emotions  
(ii) The role of autonomic nervous system in emotion.

**SECTION – C**

**III. ANSWER ANY TWO QUESTIONS. EACH ANSWER NOT TO EXCEED 1200 WORDS.**  
**(2X15=30)**

19. Describe the phases of neurodevelopment.
20. (i) Explain the organizing and activating effects of sex hormones  
(ii) Analyse the sex differences in hypothalamus
21. Discuss in detail hypovolemic thirst and osmotic thirst.
22. Explain the brain mechanism in emotion.

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