



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION – COUNSELLING PSYCHOLOGY**

**FIRST SEMESTER – NOVEMBER 2022**

**PCP 1501 – BIOPSYCHOLOGY**

Date: 22-11-2022

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

**PART – A**

**Q. No** **Answer any FOUR questions** **(4 x 5 = 20 Marks)**

- 1 Discuss the value of research with animals and ethical issues concerning their care.
- 2 Describe the supporting cells of the central and peripheral nervous systems.
- 3 Write on the two-system view of the stress response.
- 4 Explain the characteristics of a regulatory mechanism.
- 5 Discuss the body's lines of defense.

**PART – B**

**Answer any FOUR questions** **(4 x 10 = 40 Marks)**

- 6 Discuss the research method of experimental ablation: the rationale, the evaluation of behavioral effects resulting from brain damage, and the production of brain lesions.
- 7 With practice, you could become an expert in the production and recognition of facial expressions. How could you earn a living with these skills?
- 8 Describe the course of a night's sleep: its stages and their characteristics.
- 9 Describe the fluid compartments of the body and explain the control of osmometric and volumetric thirst.
- 10 Explain the relation between speaking and writing and describe the symptoms of phonological dysgraphia, orthographic dysgraphia, and semantic (direct) dysgraphia.

**PART – C**

**Answer any TWO questions** **(2 x 20 = 40 Marks)**

- 11 Describe how brain's metabolic activity, synaptic activity, and neural activity is recorded and stimulated, both chemically and electrically.
- 12 Describe the neural control of the recognition of emotional expression in normal people and people with brain damage.
- 13 Discuss research on the induction of long-term potentiation and the role of NMDA receptors.

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