

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)  
BSc DEGREE EXAMINATION MAY 2019  
(Third Semester)

Branch - PSYCHOLOGY  
PHYSIOLOGICAL PSYCHOLOGY

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer ALL questions

ALL questions carry EQUAL marks (10 x 2 = 20)

- 1 Explain heredity and environment.
- 2 Define homeostasis.
- 3 Explain the role of neurotransmitters.
- 4 What does the cerebral damage leads to?
- 5 Explain the effects of brain stimulation.
- 6 Explain action potential.
- 7 What are ventricles?
- 8 Discuss frontal lobe.
- 9 Explain the biology of memory.
- 10 Define Alzheimer's disease.

**SECTION - B (25 Marks)**

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Explain the methods of recording brain activity.  
OR  
b How does digestive system influence food selection?
- 12 a briefly explain mechanism of water regulation.  
OR  
b Discuss transport and shortage of transmitters.
- 13 a Explain the role of amygdale in anxiety.  
OR  
b Give a detailed account of the function of cerebral cortex.
- 14 a Explain the function of hind brain.  
OR  
b Discuss somatic nervous system.
- 15 a Discuss neuron cognitive disorder.  
OR  
b Explain Parkinson's disease.

**SECTION - C (30 Marks)**

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 Explain the methods for studying brain function.
- 17 Describe the mechanisms involved in water regulation.
- 18 Enumerate the categories of muscles and their movements.
- 19 Explain in detail the structure of nervous system.
- 20 Give a detailed account on cognitive disorders.