

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022  
(First Semester)

Branch – PSYCHOLOGY

PHYSIOLOGICAL PSYCHOLOGY - I

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. ....is the field of study examines the relationship between mind and body, neural mechanisms, and the influence of heredity on behaviour.  
a) Genetics  
b) Biological Psychology  
c) Bioinformatics  
d) Clinical Psychology
2. The neurotransmitter ..... is involved in attention, alertness and arousal reactions  
a) GABA  
b) Serotonin  
c) Norepinephrine  
d) Thyroid
3. .... controls involuntary actions like coughing and sneezing  
a) Medulla  
b) Cerebrum  
c) Cerebellum  
d) Pons
4. .... is a phenomenon in which some people experience a benefit after the administration of an inactive "look-alike" substance or treatment.  
a) Treatment effect  
b) Control effect  
c) Placebo effect  
d) Conditioning
5. PET stands for .....  
a) Positron Emission Tomography  
b) Positron Emission Topography  
c) Positive Emission Tomography  
d) Positive Emission Topography

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. (a) Explain the concept of split brain  
OR  
(b) Differentiate between sex link and sex limited genes
7. (a) Describe the blood brain barrier  
OR  
(b) What are auto receptors? Give an example
8. (a) Describe the role of meninges  
OR  
(b) Describe the function of cranial nerves
9. (a) Differentiate between agonists and antagonists  
OR  
(b) What is pharmacokinetics?
10. (a) What are the types of brain damages?  
OR  
(b) What is meant by experimental ablation?

Cont...

**SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. (a) Describe the biological roots of Physiological Psychology.

OR

(b) Discuss the role of heredity and environment.

12. (a) Describe the structure and function of synapses.

OR

(b) Describe the functions of hormones.

13. (a) Discuss the structure of Central Nervous System.

OR

(b) Discuss the functions of Autonomic Nervous System.

14. (a) Analyze the effects of drug action in the production of neurotransmitters.

OR

(b) Differentiate between neurotransmitters and neuromodulators.

15. (a) Discuss the treatment methods for brain damage.

OR

(b) Describe the ways to record brain activity.

Z-Z-Z

END