

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2018
(First Semester)

Branch - PSYCHOLOGY

PHYSIOLOGICAL PSYCHOLOGY -1

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10x1 = 10)

- 1 _____ is the study of the psychological and genetic basics of behaviour.
(i) Physiological Psychology (ii) Principles of Psychology
(iii) Cognitive Neuroscience (iv) Cross-cultural Psychology
- 2 Units of heredity that maintain their structural identity from one generation to another are called
(i) genes (ii) nucleus
(iii) chromosomes (iv) neurons
- 3 _____ is a gap between neurons.
(i) Axon (ii) Synapse
(iii) Dendrite (iv) Cell body
- 4 A _____ is a chemical that is secreted, in most cases by a gland but also by other kinds of cells, and conveyed by the blood to other organs, whose activity it influences
(i) Hormone (ii) Blood
(iii) Neurotransmitter (iv) Phlegm
- 5 The _____ is located at the posterior end of the cerebral cortex.
(i) Occipital lobe (ii) Temporal lobe
(iii) Parietal lobe (iv) Frontal lobe
- 6 The _____ consists of brain and spinal cord.
(i) Central nervous system (ii) Peripheral nervous system
(iii) Autonomic nervous system (iv) Somatic nervous system
- 7 Under supply of _____ is linked to depression.
(i) Serotonin (ii) Acetylcholine
(iii) Dopamine (iv) Glutamate
- 8 A _____ is a drug or other procedure of pain relief with no clear pharmacological effects.
(i) Placebo (ii) Immune
(iii) Libido (iv) None of the above
- 9 _____ refers to the removal of a brain area.
(i) Lesion (ii) Stimulation
(iii) Ablation (iv) gene-knockout
- 10 _____ is a device that records electrical activity of the brain through electrodes-ranging from just a few to more than a hundred-attached to the scalp.
(i) Computerized axial tomography (CT) Scan
(ii) magnetic resonance imaging (MRI)

SECTION - B (35 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 7 = 35)

- 11 a Write short notes on Split brains.
OR
b Describe the nature and nurture phenomenon.
- 12 a Why do we need blood brain barrier? Explain.
OR
b. How does the synapse function?
- 13 a Explain the autonomic nervous system.
OR
b Describe Cranial nerve listing out their functions.
- 14 a Write briefly about Pharmacokinetics.
OR
b Write short notes on the effects of drugs on neurotransmitters.
- 15 a How do you reduce harm from a stroke?
OR
b Write short notes on Stereotaxic surgery.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Discuss the nature and characteristics of Biological Psychology.
- 17 Elaborate the structure and functions of a neuron.
- 18 Elucidate the functions of the Cerebral Cortex.
- 19 Examine the role of Neurotransmitters on behaviour.
- 20 Sketch upon the various techniques that record brain activity.

Z-Z-Z

END