

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019
(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

(10 x 1 = 10)

- 1 Technical term for upright man is
(i) Homo sapiens (ii) Homo neanderthalis
(iii) Homo erectus (iv) Homo denisova
- 2 An automatic stereotyped movement produced is called as
(i) Generalization (ii) Reduction
(iii) Reflex (iv) Natural selection
- 3 Movement of molecules from regions of high concentration to regions of low concentration is known as
(i) Diffusion (ii) Electrolyte
(iii) Depolarization (iv) Electrolyte
- 4 _____ are the supporting cells of the central nervous system.
(i) Astrocyte (ii) Oligodendrocyte
(iii) Phagocytosis (iv) Gilia
- 5 Which of the following divide and give rise to cell of the central nervous system?
(i) Founder cells (ii) Radial glia
(iii) ventricular zone (iv) asymmetrical division
- 6 The _____ consists of the portion of the mesencephalon beneath the tectum.
(i) Substantia nigra (ii) Reticular formation
(iii) red nucleus (iv) Tegmentum
- 7 Degeneration of dopaminergic neurons that connect the substantia nigra with the caudate nucleus causes
(i) Parkinson's disease (ii) Mitochondrial dysfunction
(iii) Short term temporal memory loss (iv) Impairs mytophagy
- 8 A nucleoside, a combination of ribose and adenine that serves as a neuromodulator in the brain is
(i) Cannabinoid (ii) Anandamide
(iii) Adenosine (iv) Enkephalin
- 9 Which of the following use X -ray for studying the anatomy of the brain?
(i) EEG (ii) MEG
(iii) MRI (iv) CT
- 10 The meaning of the term 'Pregma' is
(i) Back of the head (ii) Front of the head
(iii) Inside the head (iv) Outside the head

Cont...

SECTION - B (35 Marks)

Answer **ALL** Questions

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

- 11 a Enumerate the evolution of large Brain.
OR
b Briefly explain the physiological approach to understanding human consciousness.
- 12 a Illustrate the internal structures of a multipolar neuron with explanation.
OR
b Exemplify the effects of postsynaptic potentials.
- 13 a .Explain the ventricular system and production of cerebrospinal fluid.
OR
b .Write a brief note on the autonomic nervous system
- 14 a Mention the basic principles of psychopharmacology
OR
B Discuss the effect on storage and release of neurotransmitters.
- 15 a Explain the steps in reducing the harm from a stroke.
OR
b List out the various types of brain damage.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- 16 Elucidate the biological roots of physiological psychology.
- 17 Write a detail note on Action potential.
- 18 Describe the functions of the forebrain.
- 19 Write a detail note on (i) Acetylcholine
(ii) Peptides
- 20 Give an elaborate note on effects of brain damage.

Z-Z-Z

END