PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(Third Semester)

Branch - PSYCHOLOGY

PHYSIOLOGICAL PSYCHOLOGY

Time:	Three Hours	Maximum: 75 Mark
	Answer A	N-A (10 Marks) ALL questions carry EQUAL marks (10x1 = 10)
1	Each gene is part of a very large (i) Deoxyribonucleic acid (iii) Mitochondria	
2	nerves carry information (i) efferent (iii) enferent	on to CNS. (ii) afferent (iv) all the above
3	The fiber tract that connects both (i) Pons (iii) corpus callosum	cerebral hemispheres is (ii) gyrus (iv) spinal cord
4	The are the input ride (i) axons (iii) dendrites	of the neuron. (ii) synapse (iv) node of Ranvier
5	gradient moves ions from low concentration. (i) chemical (iii) mechanical	m areas of high concentration to areas of (ii) electrical (iv) none
6	In females hormone (i) Luteinizing (iii) ACTH	stimulates release of eggs from the ovaries. (ii) Follicle-stimulating (iv)Prolactin
7	Melatonin is secreted by (i) thymus (iii) adrenal •	gland. (ii) pitutary (iv) pineal
8	Decrease in response to a stimul (i) Habituation (iii) Associative Learning	us after repeated presentations is (ii) Instrumental Learning (iv)Artificial Learning
9	In fMRI T stands for (i) fundamental (iii) future	(ii) fractional(iv) functional
10	coined the term 'selfis' (i) Darwin (iii) Donald	h gene' (ii) Dawkins (iv) David

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SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks $(5 \times 7 = 35)$

11 a Explain Darwin's theory of evaluation.

OR

- b Analyze the theory of kin selection.
- 12 a Describe the types of receptor neurons.

OR

- b State the functions of autonomic nervous system.
- 13 a Draw the structure of a neuron & explain its function.

OR

- b Narrate the toxic effect of neurotransmitter excitation.
- 14 a Differentiate between agonist and antagonist hormones.

OR

- b Describe the biological basis of normal & abnormal expressions of personality.
- 15 a Explain the functions of MRI.

OR

b Explicate neural plasticity.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks $(3 \times 10 = 30)$

- Discuss the genetic disease caused by Cell Mutation.
- 17 Discuss on lateralization & specialization.
- Explain how the nerve impulses are conducted within a neuron and between neurons.
- 19 Analyze Indian perspective to physiological psychology.
- 20 Describe Hebb's theory.

Z-Z-Z END