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(Pages:2)

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## THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(UG-CCSS)

Complementary Course—Psychology

			PS 3C 01—PHYSIC	LOG	ICAL PYCHOLOGY
me :	Thre	e Hour	·s		Maximum: 30 Weightage
I.			questions. Each question carr	ies ¼	weightage:
A.			e correct answer :		
	1	What	is neuroglia ?		21 Define menrescence
	Like in		Ganglion neurons.	(b)	Neuronal supporting cells.
			Neurons of cerebreal cortex.	(d)	Sensory neurons.
	2		n sheath is formed of:		22 Discuss CT scare of the second of the sec
			Protein and lipids.	(b)	Lipids only.
		(c)	Carbohydrates and lipids.	(d)	Protein only.
	3	Which	neurons transmit sensory info	ormat	tion from brain and spinal cord to the muscles?
			Motor.	(b)	Afferent.
			Sensory.		Inter. gods MES convered damped all TC
	4	The co	ell membrane of neurons plays a tial is sometimes called :	an im	portant role in the resting potential and this resting
		(a)	Polarization.	(b)	Sleepig potential.
		(c)	Membrane potential.	(d)	Potential spike.
В.	Mat	tch the	following:—		ajoniog)o
	5	MRI	DECEMBER OF THE PARTY OF THE PA	(a)	Neurotransmitter.
	6	Dopa	mine	(b)	Protection.
	7	Forek	orain	(c)	Thalamus.
	8	Meni	nges	(d)	Radiowaves.
C.	Fill	in the	blanks:		
	9	Neur	otransmitters are released into	the	——— of two adjacent neurons.
	10		ory neurons are also called —		
	11	_		arge	(negative charge) stored inside the neuron's cell
	12		— is a stage of sleep usually	asso	ciated with dreams. $(12 \times \frac{1}{4} = 3 \text{ weightage})$

Turn over

2

- II. Short Answer Questions. Answer all nine questions. Each question carries 1 weightage:
  - 13 What is reflex arc?
  - 14 What is REM sleep?
  - 15 What are the functions of basal ganglia?
  - 16 What is an afferent neuron?
  - 17 Define resting potential.
  - 18 What is synaptic transmission?
  - 19 What is CSF?
  - 20 What is circadian rhythm?
  - 21 Define neuroscience.

 $(9 \times 1 = 9 \text{ weigh})$ 

- III. Short Essay Questions. Answer any five questions. Each question carries 2 weightage:
  - 22 Discuss CT scan.
  - 23 Explain the process of monosynaptic reflex.
  - 24 What is blood brain barrier?
  - 25 Explain the functions of hypothalamus.
  - 26 Discuss the structure of meninges.
  - 27 Distinguish between REM sleep and Slow-wave sleep.
  - 28 Discuss the physiological effect of sleep.

 $(5 \times 2 = 10 \text{ weigh})$ 

- IV. Essay Questions. Answer any two questions. Each question carries 4 weightage:
  - 29 Explain the structure of a neuron with the help of a diagram and discuss the basic function of neurons.
  - 30 Discuss the main brain imaging techniques.
  - 31 Explain the sensory and motor processing actions of the brain.

 $(2 \times 4 = 8 \text{ weigh})$