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SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY-2017

(Regular/Supplementary/Improvement) (CUCBCSS - UG)

CC15U PSY2 C01 - HUMAN PHYSIOLOGY II

(Complementary Course: Psychology) (2015 Admission Onwards)

	Time: Three Hours		Maximum: 80 Marks	
		PART – A Answer <i>all</i> questions. Each question carrie	s <i>one</i> mark	
1.	The lowermost part	of the brain is formed of		
	a) Pons varolli	b) Crura cerebri		
	c) Cerebellum	d) Medulla oblongata		
2.	Which of the follow	ing does not act as a neurotransmitter		
	a) Acetylcholine	b) Cortisone		
	c) Serotonin	d) GABA		
3.	The condition of suc	iden flailing movements of an entire limb a	s a result of a lesion in the	

- subthalamus is called
 - c) Parkinson's disease d) Athetosis rules of production and functional of colie and sviice et

a) Hemiballismus

c) Temporal & Parietal

a) Auditory cortex

4. Central sulcus separates the following two lobes in the cerebral cortex and a like mislowed as

b) Chorea

- a) Parietal & occipital b) Occipital & Temporal
- d) Frontal & Parietal

b) Broca's area

- 5. Formulation of speech and the act of articulation are functions of the
 - d) Wernicke's area c) Visual cortex
- 6. When the pre and post synaptic membranes form a functional continuity, impulse crosses by the help of a neat, labeled diagram explain the structure noissimanar uron
- 7. ______ is the condition caused due to excess accumulation of fluid in the cranial vault.
- 8. Corpora quadrigemina are part of the

9 Anotomically two faces that	
9. Anatomically, two fissures divide the cerebellum into the anterior lobe	, the posterior lobe
and thelobe. OHAMMAZA AND AG SER SATELIM	
10. Neurons that secrete the neurotransmitter noradrenaline are called	neurons.
	$(10 \times 1 = 10 \text{ Marks})$
PART - B Answer any ten questions. Each question carries two	Time Three Hours
11. Explain how an action potential is propagated along a myelinated axor	1. The lowermost part of
12. Write a brief note on brain waves.	
13. What is multisynaptic reflex and what are its components?	
14. Briefly explain electroencephalography.	
15. Which part of brain is known as the 'silent area' of brain? Why is it so	d sailorolyses (s known?
16. What is crossed extensor reflex?	
17. Explain the role of calcium ions in the transmission of an action potenti	al. He condition of supplemental al.
18. Write a note on meninges.	
19. Give the sites of production and functions of Cerebrospinal fluid.	
20. Explain 'All or None' law. 100 landers on in redol owt gniwoliof of re-	4 Central sulcus separat
	$(10 \times 2 = 20 \text{ Marks})$
21. Explain the organization of the sympathetic nervous system and its role i	n emergencies
22. Describe now the caudate circuit is involved in the cognitive control of n	notor activity.
23. Briefly discuss the basic theories of sleep. a mol sonaidment obtains to	c) Visual contex
24. With the help of a neat, labeled diagram explain the structure of a motor i	neuron.
25. Explain the principle, operation and advantages of Computerized Tomographics (Computerized Tomographics) and advantages (Computerized Tomographics) and (Computerized Tomographics	raphy (CT).
add to reason	

- 26. What are glial cells? Explain the more important functions of the different types of glial cells
- 27. Explain briefly the concept of the dominant hemisphere
- 28. Describe the properties of a neuronal synapse.

 $(6 \times 5 = 30 \text{ Marks})$

PART - D Answer any two questions. Each question carries ten marks

- 29. What are association areas of the cerebral cortex? Explain their respective roles.
- 30. Detail the organization of dorsal and ventral forebrain.
- 31. Explain how an action potential is initiated, transmitted and conducted.
- 32. Explain the role of cerebellum in the overall control of motor activities.

(2x10=20 Marks)
