

21U223S

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Name:

Reg. No:

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2022

(CUCBCSS-UG)

CC15U PSY2 C01 - HUMAN PHYSIOLOGY - II

(Psychology - Complementary Course)

(2016 to 2018 Admissions – Supplementary/Improvement)

Time: Three hours

Maximum: 80 Marks

Part A

Answer *all* questions and each carries 1 mark.

Choose the correct answer from the brackets:

1. is the structural and functional unit of an organism.
(Cell, Mitochondria, Lysosome, Tissue)
2. A message carried along a neuron is called
(Nerve impulse, Giant nerve fibres, Resting potential, Action potential)
3. A junction between two neurons is called
(Gap junction, Synapse, Vesicle, Axon)
4. Total number of spinal nerves in humans
(28, 29, 30, 31)
5. is the motor area for speech.
(Wernicke's area, Frontal gyrus, Broca's, Aphasia)

Fill in the blanks:

6. Damage to parietal lobe leads to
7. is the region of the brain that is important for language development.
8. Face area is located in of the brain.
9. is the natural periodic state of rest for mind and body.
10. is a type of reflex action that are present since the time of birth.

(10 × 1 = 10 marks)

Part B

Answer *all* questions. Each question carries 2 marks

- | | |
|-----------------------------|----------------------------|
| 11. Somatic nervous system. | 16. Cerebellar hemisphere. |
| 12. Myelin sheath. | 17. Basal ganglia. |
| 13. Rhombencephalon. | 18. Parkinson disease. |
| 14. Foramen of Monro. | 19. Prosopagnosia. |
| 15. Filum terminale. | 20. Meninges. |

(10 × 2 = 20 marks)

Part C

(Answer in a paragraph of about half a page to one page)

Answer any *six* questions. Each question carries 5 marks.

21. Central nervous system.
22. Functions of cerebrum.
23. Structure of cerebellum.
24. Brief description of reflex action and types of reflex action.
25. Phylogenetic division of cerebellum.
26. Functions of basal ganglia.
27. Role of calcium ions in synaptic transmission.
28. Sensory and motor aspects of communication.

(6 × 5 = 30 Marks)

Part D (Essay type questions)

Answer any *two* of the following. Each question carries 10 marks.

29. Write an essay on nerve impulse – generation, conduction and synaptic transmission.
30. Give an account on the structure of human brain.
31. Explain the structure and organization of the spinal cord.
32. Describe basic theories of sleep and brain imaging techniques.

(2 × 10 = 20 Marks)
