

2022

**3rd Semester Examination**  
**PHYSIOLOGY (Honours)**  
**Paper : C 7-T**  
**(Functions of the Nervous System)**  
**[CBCS]**



Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.  
Candidates are required to give their answers  
in their own words as far as practicable.*

- A. Answer any *five* questions : 2×5=10
1. What do you mean by reticular formation? 2
  2. What are the cerebellar deep nuclei? 2
  3. What is Brown-Sequard syndrome? 2
  4. What do you mean by Non-REM sleep? 2
  5. Write the differences between fast pain and phasic pain. 2
  6. What do you mean by withdrawal reflex? 2
  7. What is basal ganglia? 2
  8. What is Papez Circuit? 2

B. Answer any *four* questions :

5×4=20

9. Discuss briefly the regulation of posterior pituitary secretion, with suitable diagram. 5
10. What do you mean by lower motor neuron? Mention the function of cerebellum. 2+3
11. Write the causes of hunger and thirst. Write their neural regulation. 3+2
12. What is dysmetria? Discuss the changes of EEG in different stages of sleep and wakefulness. 2+3
13. Discuss briefly the mechanism of posture and its regulation. 3+2
14. What is Parkinson's disease? Write down the anatomical organization of thalamus. 2+3

C. Answer any *one* question :

10×1=10

15. Write down the function of medulla oblongata. Describe the molecular structure of the Cerebral Cortex. Write down the functions of neocortex. 2+5+3
16. Describe the distribution and functions of the sympathetic nervous system. How the body temperature is regulated by higher centers?

(4+3)+3