



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 3rd Semester Examination, 2020, held in 2021

PHYACOR07T-PHYSIOLOGY (CC7)

FUNCTIONS OF NERVOUS SYSTEM

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates should answer in their own words and adhere to the word limit as practicable.*

Answer any five questions from the following

8×5 = 40

1. (a) What is Papez circuit? 2
(b) Describe the role of limbic system in emotional behavior. 4
(c) Mention the behavioral changes in Kluver-Bucy syndrome. 2
2. (a) State the anatomical parts of basal ganglia. 2
(b) Write the role of basal ganglia in axial and girdle movement. 3
(c) What are thalamic nuclei? 3
3. (a) How does thalamus take part in relay function? 3
(b) What is thalamic animal? State the syndrome of thalamic animal. 2+3
4. (a) Describe the histological structure of neocortex. 3
(b) Distinguish between projection, association and commissural fibers of cerebral cortex. 3
(c) What are mossy and climbing fibers? 2
5. (a) What are cerebellar nuclei? 3
(b) What is 'servo mechanism'? How does cerebellum control voluntary movement by 'servo mechanism'? 1+3
(c) What is corpus cerebelli? 1
6. (a) Describe the role of hypothalamus in regulation of body water. 3
(b) What do you mean by parasympathetic division? 2
(c) What is silent area? 1
(d) What are neurohormones? 2

7. (a) What are Herring bodies? 1
(b) Write the name, origin, extension and termination of the tract which carries kinesthetic sensation from lower part of the body. 1+1+3+1
(c) Name the different types of pyramidal tracts. 1
8. (a) Write the difference between REM and non-REM sleep. 3
(b) What do you mean by K-complex? What is 'alpha block'? 2+1
(c) Write the clinical significance of EEG. 2

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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