UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 3rd Semester Examination, 2021

CC7-PHYSIOLOGY

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

Answer any *five* questions from the following   1×5 = 5

1. (a) Define Monosynaptic and Polysynaptic Reflexes.

   (b) What are Cholinergic and Adrenergic Nerves?

   (c) Name the ascending and descending tracts of the Spinal Cord.

   (d) What are Neuropeptides? Give examples.

   (e) Write down the physiological functions of Medulla.

   (f) Classify Conditional Reflexes.

   (g) Write down two major functions of the Neo cortex.

   (h) Mention the disorders of the basal ganglia.

GROUP-B

Answer any *three* questions from the following   5×3 = 15

2.   Describe the mechanism of Circulation of CSF. Mention its functions.   3+2 = 5

3.   Write down the characteristics of the Autonomic Nervous System. Mention the   3+2 = 5
     classification of the ANS.

4.   Write short notes on the electrical activity of the Cerebral Cortex. Write down   3+2 = 5
     the nature of the brain waves.

5.   Write down the characteristics of different types of Memory. Write down the   3+2 = 5
     functions of the Hypothalamus.

6.   How many areas are present in the frontal lobe of the Cerebral Cortex? Write   1+4 = 5
     down the functions of different areas present in the temporal lobe.

GROUP-C

Answer any *two* questions from the following   10×2 = 20

7. Why the Corticospinal tract is named so? Describe with a labeled diagram the   2+5+3 = 10
    pathway of the Corticospinal tract.

8. Write down in detail the histology of the Neocortex. What are the importances   5+3+2 = 10
    of EEG in Medical Science? What is Evoked Potential?

9. What is the Limbic System? Write down the structure of the Limbic System.   2+5+3 = 10
    Mention its functions.

10. What is Referred Pain? Write down in detail the mechanism of occurence of   2+6+2 = 10
    Referred Pain. What is Reticular Activating System (RAS)?

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