



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 3rd Semester Examination, 2022

GE2-P1-PHYSIOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1. Answer any **five** questions from the following: 1×5 = 5
- (a) What is Absolute refractory period?
 - (b) What are red muscles?
 - (c) Write the name of Vitamin-A deficiency disease.
 - (d) What is motor unit?
 - (e) What is relay center of brain?
 - (f) What is long term memory?
 - (g) Write some sources of Vitamin-C.
 - (h) What are non-essential amino acids?
 - (i) Which food stuff has the greatest SDA?

GROUP-B

Answer any three questions from the following

5×3 = 15

2. (a) State the structural and functional unit of nervous system. 1
(b) Draw its neat labelled diagram and write two functions. 2+2
3. Write a short note on pacemaker tissue of heart. 5
4. (a) What are nutrients? What are the different types of nutrients present? 1+3
(b) What is BMR? 1
5. Name the phases of action potential. How does nerve fibre get depolarized? 2+3
6. What is reflex action? What is reflex arc? Enumerate the components of reflex arc. 1+1+3

GROUP-C

Answer any *two* questions from the following

10×2 = 20

7. (a) What is “Glia”? 2
(b) Describe the structure of muscle fibre and sarcomere. 8
8. (a) What is RAS (Reticular Activating System)? 2
(b) Write notes on: 4+4
(i) Function of hypothalamus
(ii) Function of cerebellum.
9. Briefly describe the structure of synapse and ionic basis of synaptic transmission. 10
- 10.(a) Describe two major functions of protein. 5
(b) Write the importance of: 5
(i) Sodium (ii) Calcium (iii) Phosphorus (iv) Ascorbic acid (v) Retinol.

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