U.G. 2nd Semester Examination - 2021 PHYSIOLOGY

[HONOURS]

Course Code: PHYSIOL-H-CC-T-03

(Physiology of Nerve & Muscle Cells)

Full Marks: 20 Time: 1 Hour

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

1. Answer any **five** questions:

 $1 \times 5 = 5$

- i) What are the functions of myelin sheath?
- ii) Enumerate the different muscle proteins.
- iii) Name different types of glial cells.
- iv) What do you mean by saltatory conduction?
- v) What is triad?
- vi) What is chronaxie?
- vii) What is calcium rigor?
- viii) Name the drugs that block neuromuscular transmission.

2. Answer any **one** question:

 $5 \times 1 = 5$

- i) What are the morphological features of cardiac muscle? What is the difference between sarcotubular system of heart and skeletal muscle?

 3+2=5
- ii) What is the source of energy in a smooth muscle? What are the types of a smooth muscle fibres? Where are they located? 1+2+2=5
- iii) Write a short note on Myasthenia gravis.
- 3. Answer any **one** question:

 $10 \times 1 = 10$

- i) Describe the structure of actin and myosin filaments with diagram.
- ii) Describe the structure of neuromuscular junction with proper diagram. 10
- iii) Classify nerve fibres. Write the properties of nerve fibres in brief. 3+7=10
