

U.G. 2nd Semester Examination - 2021**PHYSIOLOGY****[HONOURS]****Generic Elective (GE)****Course Code : PHYSIOL-H-GE-T-02**

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** from the following questions :

1×5=5

- a) What is H band?
- b) What is synaptic cleft?
- c) What is Tropomyosin?
- d) What is myelin sheath?
- e) Give example of two epicratic sensation.
- f) What is cross bridge?
- g) What do you mean by nociceptors?
- h) What is paccinian corpuscle?

GROUP-B2. Answer any **one** from the following questions:

5×1=5

- a) Classify nerve according to Erlanger-Gasser. 5
- b) Describe briefly the structure of muscle spindle with a diagram. 5
- c) Write a short note on sarcotubular system. 5

GROUP-C3. Answer any **one** from the following questions:

10×1=10

- a)
 - i) What is IPSP as EPSP?
 - ii) Describe the mechanism of synaptic transmission. 3+7=10
- b) What do you mean by E-C coupling? State the molecular mechanism of contraction and relaxation of skeletal muscle fibre. 3+7=10
- c) Discuss the following properties of skeletal muscle : 5+5=10
 - i) Summation
 - ii) All or None Law

[Turn over]