

UG 2nd Semester Examination 2020

PHYSIOLOGY

(HONOURS)

Course Code: PHYSIOL(H)CC-03/T

Full Marks: 40

Time: 2.30 hrs

Group A

1. Answer any five from the following questions:

2X5=10

- a. What is motor end plate?
- b. Give example of two neuromuscular blocker.
- c. State two important functions of neurotrophins.
- d. What is synaptic cleft?
- e. What is chronaxie and rheobase?
- f. What do you mean by Wallerian degeneration?
- g. State the difference between red and white muscle.
- h. What is synaptic vesicle cycle?

Group B

2. Answer any two from the following questions:

5X2=10

- a. Write a brief note on sarcotubular system 5
- b. Briefly describe the physiological functions neuroglial cells. 5
- c. What are the criteria of regeneration? Describe the regeneration process in a nerve fibre. 2+3=5
- d. Classify nerve fibre according to Erlanger-Gasser. 5

Group c

3. Answer any two from the following questions:

10X2=20

- a. What do you mean by E-C coupling? State the molecular mechanism of contraction and relaxation of skeletal muscle fibre. 3+7=10
- b. Explain with a suitable diagram the process of synaptic transmission. 10

c. Describe the origin and propagation of action potential in nerve fibre. 6+4=10

d. Write the electrical and mechanical properties of cardiac muscle. 6+4=10

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