Full Marks: 40

## UG/2nd Sem/Physio/H/19

Time: 2 Hours

2019

B.Sc.

## 2nd Semester Examination PHYSIOLOGY (Honours)

## Paper - C3T

The figures	in the marg	in indicate	full marks.
Candidates			

1. Answer any five questions:

L		(a)	What kind of impulses do mixed nerve carry?		
	ļ			2	
		a v		120	
	1	(b)	What is nerve excitation?	2	
	1	(c)	What is resting length of skeletal muscle?	2	
	Ī	(d)	What are the dense bodies in smooth muscle	?	

(e) Which are the characteristics of cardiac muscle?

[ Turn Over ]

5×2

(f) How can you explain staircase phenomenor the light of all or none law?	in 2
(g) How do synapses work?	2
(h) What is optical centre of eye?	2
2. Answer any four questions:	×5
<ul> <li>(a) Compare the excitation contraction coupling skeletal, cardiac and smooth muscle.</li> </ul>	in 5
(b) Describe the structure of one typical chemic synapses with a labelled diagram.	al 5
(c) Discuss the transduction mechanism in audito hair cells.	ry 5
(d) Discuss the neurophysiological mechanism of Visual acuity and the factors affecting it.	of 5
(e) Draw and describe the miles	5
3. Answer any <i>one</i> question: 1×10	)
(a) What is Fenn effect? Discuss the energy metabolism of skeletal muscle during muscle contraction.	2
(b) What is autorhythmicity of heart? Why cardiac muscle does not become fatigue? 4+6	