1.

Attempt any five:



UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 2nd Semester Examination, 2023

CC3-PHYSIOLOGY

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks..

 $1 \times 5 = 5$

GROUP-A

(a)	What is summation?	
(b)	What is the action of ATP-ase in muscle?	
(c)	What is myofibril?	
(d)	What is white muscle?	
(e)	Write down the functions of myoglobin.	
(f)	Mention the role of Tropomyosin.	
(g)	What is microglia?	
(h)	Mention the role of GABA.	
(i)	What is multiple sclerosis?	
(j)	What do you mean by the term "Coding of Sensory System"?	
GROUP-B		
	Attempt any three	$5 \times 3 = 15$
2.	Write short notes on:	2+3
	(i) Power stroke	
	(ii) Action	
3.	Describe sarcotubular system.	5
4.	Briefly describe the electrical events at synapse.	5
5.	What is biological transducer? Write a note on pacemaker tissue.	2+3
6.	Write down the structural and histological peculiarities of neuromuscular junction.	5

UG/CBCS/B.Sc./Hons./2nd Sem./Physiology/PSIOCC3/2023

GROUP-C

$10 \times 2 = 20$ Attempt any two $2\frac{1}{2} \times 4 = 10$ 7. Write short notes on — (a) Renshaw cell inhibition (b) Multiunit Smooth Muscle (c) Ratchet action (d) Ionic flux. 8. Describe the actin based contraction of muscle. Mention the biochemical 5+5 changes in muscle during contraction. $2\frac{1}{2} \times 4 = 10$ 9. Write short notes on: (a) Walk Along Theory (b) Fenn effect (c) EPP (d) Neurotrophins. 10.(a) Describe the mechanism of action of dopamine on muscles. 6+2+2 (b) What do you mean by "Synaptic delay"? (c) What is dense body?

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