

**UNIVERSITY OF NORTH BENGAL** B.Sc. Honours 2nd Semester Examination, 2022

## **CC3-PHYSIOLOGY**

Time Allotted: 2 Hours

1.

Full Marks: 40

The figures in the margin indicate full marks..

## **GROUP-A**

 $1 \times 5 = 5$ 

- (a) What is Facilitation?
  - (b) What is Serotonin?

Attempt any *five*:

- (c) What do you mean by the term "Coding of sensory information"?
- (d) What is MEPP?
- (e) What is Graded Potential?
- (f) What is the relation between diameter of nerve fibre and excitability?
- (g) Name the receptor subtypes of Dopamine.
- (h) What is Fascia Adherenes?
- (i) What do you mean by "Athlete's Heart"?
- (j) Define isometric contraction with example.

## **GROUP-B**

	Attempt any three	$5 \times 3 = 15$
2.	Write short notes on:	$2\frac{1}{2} \times 2 = 5$
	<ul><li>(a) After load and Pre load</li><li>(b) Electromyography.</li></ul>	-
3.	What is Lohmann reaction? Discuss its significance. What is Fenn effect?	1+2+2=5
4.	Write a note on "SERCA". Write down the structural peculiarities of neur effector junction.	o 2+3=5
5.	What is "Generator Potential"? Give two examples of tactile receptor. What Weber Fechner's Law?	is 2+2+1=5
6.	Briefly describe sarcotubular system with diagram.	5

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## **GROUP-C**

		Attempt any two	$10 \times 2 = 20$
7.		Discuss the functional anatomy of synapse. Describe the mechanism of regulation of neurotransmitter secretion in synapse.	4+6=10
8.		Discuss the following:	10
	(a)	Presynaptic Inhibition	
	(b)	Renshaw Cell Inhibition	
	(c)	Reciprocal Innervation	
	(d)	GABA.	
9.		Write short notes on:	5+5=10
	(a)	Excitation contraction coupling	
	(b)	Ratchet action.	
10		Discuss the electron microscopic structure of muscle. Briefly discuss the histology of myosin filament.	5+5=10

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