

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 2nd Semester Examination, 2021

FNTACOR04T-FOOD AND NUTRITION (CC4)

HUMAN PHYSIOLOGY

Time Allotted: 2 Hours

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Full Marks: 40

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The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable.

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Answer any <i>four</i> questions from the following	$10 \times 4 = 40$
All parts of a question should preferably be written together	
Define the term synapse. Briefly explain the process of synaptic transmission. Explain the structural specialties of skeletal and cardiac muscles.	2+4+4
What is nerve? What do you mean by excitatory and inhibitory neurotransmitters? Name four proteins present in skeletal muscle.	2+4+4
What is action potential? Describe how is nerve impulse propagated in non myelinated and myelinated nerve fibre?	2+3+5
Name the hormones secreted by kidney, liver and heart. Explain the role of Hypothalamus as an endocrine gland. What are releasing hormones? Explain with examples.	3+4+3
Briefly explain muscle energetics. Explain the process of skeletal muscle contraction and relaxation.	2+5+3
State the location and micro anatomical features of pituitary gland. Name the hormones secreted by gland. How does pituitary regulate the activity of other endocrine glands?	3+4+3
Explain the features of Neuromuscular junctions. Explain how does ADH help in maintaining water balance?	5+5
Describe the structure of adrenal gland. Name the hormones released by the gland. State the functions of two hormones released by this gland.	2+2+6
Briefly discuss the location and structural features of Pancreas. Name the hormones secreted from Pancreas. Discuss the role of insulin in human system.	3+2+5
N.B.: Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of grammatic with the same day / da	

to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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