#### CBCS/B.Sc./Hons./1st Sem./Food and Nutrition/FNTACOR02T/2019





WEST BENGAL STATE UNIVERSITY B.Sc. Honours 1st Semester Examination, 2019

# **FNTACOR02T-FOOD AND NUTRITION (CC2)**

Time Allotted: 2 Hours

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Full Marks: 40

The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable. All symbols are of usual significance.

## **GROUP-A**

- 1. Answer any *ten* questions from the following:
  - (a) Name two major proteins which mediate tight junction.
  - (b) What is meant by compliance of the lungs?
  - (c) What is the function of Endoplasmic Reticulum?
  - (d) Mention two non Respiratory functions of lungs.
  - (e) Define mean electrical axis of the heart.
  - (f) What is purpura?
  - (g) Name two anticoagulants used in the laboratory.
  - (h) What is Cardiac Index?
  - (i) What is the importance of vitamin K in blood coagulation?
  - (j) What is obligatory urine volume?
  - (k) State the pH of blood and urine.
  - (l) Name two hormones secreted by Kidney.
  - (m) What is the importance of AV nodal delay?
  - (n) State the cause of first sound of heart in cardiac cycle.

#### **GROUP-B**

2.	Answer any <i>four</i> questions from the following:	$5 \times 4 = 20$
(a	) What is juxtaglomerular apparatus? Discuss its functions.	2+3
(b	) Explain the oxygen dissociation curve with special reference to its shape.	5
(c	) State the difference between peripheral and integral membrane protein. How cholesterol affects membrane fluidity?	2+3
(d	) State Fick's Principle. How cardiac output is determined by using this principle?	2+3
,	) What is the Normal core body temperature? Mention the ways in which body can gain heat.	1+4
(f	) Write a note on regulation of coronary blood flow.	5

## **GROUP-C**

3.	Answer any one question from the following:	$10 \times 1 = 10$
	(a) Describe the different events of cardiac cycle. Distinguish between systemic an	nd 6+4
	pulmonary circulation.	5+5
	(b) Explain in detail the structure of skeletal muscle and cardiac muscle.	5+5
	X	

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 $1 \times 10 = 10$