

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

## FNTACOR02T-FOOD AND NUTRITION (CC2)

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

## GROUP-C

3. Answer any one question from the following: pulmonary circulation.
(b) Explain in detail the structure of skeletal muscle and cardiac muscle.
