

U.G. 1st Semester Examination - 2020

FOOD & NUTRITION

[HONOURS]

Course Code : F&N-H-CC-T-1

Full Marks : 40

Time : 2½ Hours

The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

1. Answer any **five** questions: 2×5=10
- a) State the functions of smooth endoplasmic reticulum.
 - b) Define homeostasis.
 - c) What is sarcomere?
 - d) What is peristalsis?
 - e) Define tidal volume. State its normal value in adult healthy male.
 - f) State the Frank Starling Law of Heart.
 - g) State the cause of Erythroblastosis Foetalis.

2. Answer any **two** questions of the following:
5×2=10
- a) Explain isotonic and isometric muscle contraction with suitable examples. 3+2
 - b) What is negative feedback system? Explain with an example. 3+2
 - c) Describe the mechanism of oxygen transport through blood. 1+4
 - d) Describe briefly the functions of liver. 5
3. Answer any **two** questions of the following:
10×2=20
- a) Describe fluid mosaic model of plasma membrane with a suitable diagram. Enumerate the functions of Plasma membrane. 5+3+2
 - b) Describe briefly the events occur in cardiac cycle with suitable diagram. 10
 - c) Describe the process of carbohydrate digestion and absorption in the gastro-intestinal system. Write a note on SGLUT. 5+3+2
 - d) What is hemostasis? Describe the mechanism of blood coagulation. 3+7