

2020

FOOD AND NUTRITION (Honours)

Paper : FNTH - DC - 1
(Human Physiology - I)
(CBCS)

Full Marks : 25

Time : Two Hours

The figures in the margin indicate full marks.

Instruction to students for Page Limitation

For **all one (01) mark** questions, students should answer within **1 page of an A4 paper**; for **each five marks (05) question** : **Max. 1 page of an A4 paper** (including figure / diagram, if any) and for **10 marks (10) question** : **Max. 2½ page** of an A4 paper (including figure / diagram, if any), should be used.

1. Answer any *five* of the following : 1×5=5
 - (a) Differentiate between plasma and serum.
 - (b) Name the layers of an artery.
 - (c) How cardiac output is dependent on stroke volume?
 - (d) Which cell is responsible for the acidic environment in stomach?
 - (e) Mention the location of gallbladder in human body?
 - (f) Write down the end product of aerobic respiration.
 - (g) What do you mean by crown of tooth?
 - (h) What is the main composition of human cell plasma membrane?

2. Answer any *two* of the following : 5×2=10
 - (a) What do you mean by auscultation? State the difference between Type 1 and Type 2 pneumocytes. 2+3

(b) Explain the role of different types of tooth in the chewing process. Bone density decreases gradually with increasing age — Justify. 3+2

(c) What do you mean by hemostasis? Explain the process with a suitable diagram. 1+4

3. Answer any *one* of the following : 10×1=10

(a) Mention the changes occur in breathing during exercise. What do you mean by tidal volume? Describe the role of rennin-angiotensin system in blood pressure regulation. 4+2+4

(b) With a suitable diagram explain the fluid mosaic model of plasma membrane. Briefly discuss the function of ribosome and endoplasmic reticulum in cell metabolism. 5+(2½+2½)
