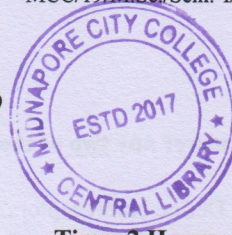


PG (NEW) CBCS
M.Sc. Semester-I Examination, 2019
FOOD SCIENCE & NUTRITION
PAPER: FSN-103
(NUTRITIONAL PHYSIOLOGY)



Full Marks: 40

Time: 2 Hours

1. Answer any four of the following questions:

2×4=8

- a) Write the functions of RER.
- b) Mentions any two functions of cells membrane.
- c) Write the functions of TH1 cells.
- d) Write the functions of enterokinase enzyme.
- e) What is vital capacity?
- f) What is "starling's Law of Heart"?
- g) Write any two features of Cortical Nephron?
- h) What is Heme-Heme interaction?

2. Answer any four of the following questions:

4×4=16

- a) What is cellular immunity? Write mechanism of the development of cellular immunity.
1+3
- b) "Liver acts as Cooking House". Justify it.
- c) i. What is MCV? Mention its normal value.
ii. What is MCHC? Write its normal level.
2+2
- d) Briefly describe the hemostasis mechanism with suitable line diagram.
- e) "Kidney acts as an endocrine organ".- justify it.
- f) State the neural regulation of food intake.
- g) i. What do you mean by Rh-incompatibility?
ii. Mention the physiological importance of ABO system.
2+2
- h) i. What are the causes of peptic ulcer?
ii. Mention its clinical complications.
2+2

(Turn over)

(2)

3. Answer any two of the following questions:**8×2=16**

- a) i. Define baroreceptors?
ii. How do baroreceptors regulate blood pressure?
iii. Describe any three factors affecting cardiac output. **1+4+3**
- b) i. "Epinephrine hormone is a diabetogenic hormone"- justify the statement.
ii. Describe the role of vitamin C and B₁₂ on erythropoiesis. **4+4**
- c) i. What are the enzymes present in pancreatic juice?
ii. How does pancreatic juice help in the digestion of protein?
iii. Describe the functions of plasma proteins. **2+3+3**
- d) i. How does kidney regulate the pH of blood?
ii. Explain O₂- dissociation curve. **4+4**

