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

Full Marks: 40 **Time: 2 Hours**

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1. Answer any <u>four</u> 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 <u>four</u> 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-imcompatibility?

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)

3. Answer any <u>two</u> 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 B_{12} 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 O_2- dissociation curve. 4+4

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