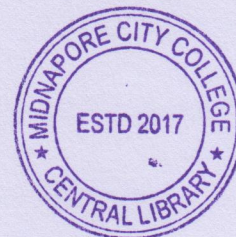


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PG (NEW) CBCS
M.Sc. Semester-I Examination, 2018
FOOD SCIENCE & NUTRITION
PAPER: FSN-103
(NUTRITIONAL PHYSIOLOGY)

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

- 1. Answer any four of the following questions: 2×4=8**
- a) What is micelle? 2
b) What is gigantism? 2
c) What is chloride shift? 2
d) Write the role of vit-k on blood coagulation. 2
e) What is angina pectoris? 2
f) What is Diuretics? 2
g) What do you mean by Fab and Fc segments? 2
h) What is RQ? 2
- 2. Answer any four of the following questions: 4×4=16**
- a) i) Write the difference between gall bladder bile and Liver bile.
ii) Write the function of bile in fat digestion. 2+2=4
b) How does Carboryahate absorbed in intestine? 4
c) What is saltatory conduction? Write the process of saltatory conduction? 1+3=4
d) How does pancreas control the blood glucose level? 4
e) What happens if the antibody is treated with pepsin, papain and Marcaptoetharol? 4
f) i) How does kidney maintain acid base balance?
ii) What is JG apparatus? 2+2=4
g) i) What are chemo receptors?
ii) What do you mean by 'Hering-Breuer Reflex'? 2+2=4
h) Write briefly about O₂ transport in blood? 4
- 3. Answer any two of the following questions: 8×2=16**
- a) i) What do you mean by counter current process in renal tubule?
ii) How does hypertonic urine formed by the counter-current mechanism in kidney?
iii) What is renin-angiotensin system? 2+4+2=8
b) i) What is peptic ulcer?
ii) Write about motility of small intestine at normal resting humans.
iii) What is dead space?
iv) Define Tidal volume. 2+3+2+1=8
c) i) Write a note on "erythroblastosis fetalis"
ii) State the significances of ABO system.
iii) Describe the factors affecting cardiac output. 3+2+3=8
d) i) How an antigen is presented in cell mediated immunity?
ii) Distinguish between haptan and adjuvant.
iii) Draw a structure of antibody monomer. 4+2+2=8
