Seat No.	:			
	9 1			_

AI-106

April -2018

B.Sc., Sem.-II

CC-1: Paper-103: Healthy Hygiene (Food and Nutrition)

Time	e: 3	Hours] [Max. Mai	'ks : 70
1.	Ansv	wer any two of the following :	14
	(A)	Discuss Human dietary requirements and its consequences of deficiency.	
	(B)	Explain Basal Metabolic Rate and its importance.	
	(C)	Describe role to role of Iron in metabolism and symptoms of its deficit.	
	(D)	Explain nutritional deficiencies causing Osteoporosis and its symptoms.	
2.	Ansv	wer any two of the following :	14
	(A)	Define 'Food Spoilage' and explain process of spoilage in Milk.	
	(B)	List Physical methods for food preservation and explain any two in detail.	
	(C)	Explain method for Pasteurization and its applications.	
	(D)	Discuss mechanism for food preservation by chemicals Salt, Sugar and NaOH	
3.	Ansv	wer any two of the following:	14
	(A)	Define food poisoning and explain causes and symptoms of food poisoning Shigella.	; by
	(B)	Write a detailed note on chemistry and effects of bacterial toxins.	
	(C)	Discuss sources of food contamination and means to control it.	
	(D)	Name four toxins of fungal origin and explain any one in detail.	
4.	Ans	wer any two of the following:	14
	(A)	Explain method for Dye-reduction test form food sample and its significance.	
	(B)	Discuss physical and chemical methods for detection of adulteration in food.	
	(C)	Discuss use of nucleic acid Hybridization method in food analysis.	
	(D)	Explain direct microscopic examination of food and information derived.	
AI-1	06	1	P.T.O.

5. Answer the following in brief:

- (1) Name two essential amino acids.
- (2) Name two sources of protein-rich foods.
- (3) What is Beriberi?
- (4) What is normal value of haemoglobin?
- (5) Name two chemical food preservatives.
- (6) How does microflora enters meat?
- (7) How food is preserved by Lye (Sodium hydroxide)?
- (8) List microflora associated with grains.
- (9) What is Botulism?
- (10) What is gastroenteritis?
- (11) Differentiate 'Food intoxication' and 'Food infection'
- (12) What is found by MPN test of food?
- (13) Name two methods to find viable cell number from food sample.
- (14) Give full form of ELISA.

AI-106 2

