	A. Carrier				
(6 pages)		R	Reg. No. :		
Co	de N	Io. : 40294 E	Sub.	Code : JNCH 3 A SNCH 3 A	
	U	.G. (CBCS) DEGR NOVEM			
		Third S	Semeste	r	
		Cher	mistry		
	No	n Major Elective -	– FOOI	CHEMISTRY	
	(For	r those who joined	in July	2016 onwards)	
Time : Three hours		ree hours		Maximum: 75 marks	
		PART A (10	× 1 = 1	0 marks)	
		Answer Al	L ques	tions.	
	Cho	ose the correct an	swer:		
1,	A mineral that the body needs to work properly is				
	(a)	Calcium	(b)	Silver	
	(c)	Gold	(d)	Lead	
2.	About half of our diet should be made up of				
	(a) grains and vegetables				
	(b)	fruits and milk			
	(c)	milk and cheese			

fats and sugars

Which of the following is not a function of a food additive?						
(a)	To maintain product consistancy					
(b)	To maintain nutritive value					
(c)	Controlling acidity /alkalinity					
(d)	None of the above					
The examples of food additives						
(a)	Stabilizers	(b)	Emulsifiers			
(c)	Antioxidants	(d)	All the above			
Spreading pathogens from one surface to another						
(a)	autoclaving	(b)	cross-contamination			
(c)	sulfuring	(d)	food preservation			
A type of food preservation technique that involves sealing food in sterilized air light containers is						
(a)	freezing	(b)	drying			
(c)	canning	(d)	irradiation			
Pasteurization is the process of heating milk						
(a)	above 121°C					
(b)	above boiling point					
(c)	below boiling point					
(d)	above 180°C					

- The process of preserving food by rapid freezing followed by dehydration under vaccum is called
 - (a) Lyophilisation
- (b) Sterilization
- (c) Cold dehydration (d)
- Cryo preservation
- Which is responsible for the implementation of FSSAI
 - (a) Ministry of Health and Family Welfare
 - (b) Ministry of Food Processing Industries
 - (c) Department of Agriculture and Cooperation
 - (d) Directorate General of Health Services
- 10. WTO stands fpr
 - (a) World Health Organisation
 - (b) World Healing Organisation
 - (c) Wealth Health Organisation
 - (d) None of the above

PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Answer should not exceed 250 words.

11. (a) Write a note the calorific value of food.

Or

(b) Discuss briefly the balanced diet.

Page 3 Code No. : 40294 E

 (a) Explain briefly the bleaching agents which are used as food additives.

Or

- (b) What are food additives? Explain briefly the food colourants with suitable example.
- (a) What are food preservation? Explain with suitable examples.

Or

- (b) Discuss the drying method of food preservation with suitable example.
- 14. (a) What is meant by food adulteration? How is turmeric powder adulterated? How are they detected?

Or

- (b) What are the adulterants present in Chilli powder? How are they detected?
- 15. (a) Expand AGMARK, FA and WHO. What are their functions?

Or

(b) Explain briefly the consumer protection Act.

Page 4 Code No.: 40294 E [P.T.O.]

PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Answer should not exceed 600 words.

 (a) Explain briefly the functions and biological importance of proteins and vitamins.

Or

- (b) What are the functions of carbohydrates and fats? Explain briefly their biological importance.
- (a) Explain any four natural and artificial food additives.

Or

- (b) Discuss the properties of food additives with suitable examples.
- (a) Describe the heat and radiation methods of food preservation.

Or

(b) Discuss briefly the cold and deep freezing food preservation.

Page 5 Code No.: 40294 E

19. (a) What are the adulterants of coffee powder and milk? How are they detected?

Or

- (b) What are adulterants present in pulses and oil? How are they detected?
- (a) Describe briefly the packing and labelling of food.

Or

(b) What is meant by quality control? Explain its importance. Explain the essential commodities Act in details.

Page 6 Code No.: 40294 E