[This o	question paper con	itains	2 printed pages	.]			
Sr. No.	of Question Paper	: 17	781	GC-3	Your Roll No		
Unique	e Paper Code	.: 32	2201102				
Name	of the Paper	: Pr	rinciples of Foo	d Science			
Name	of the Course	: B.	.Sc. (H) Food 7	Technology			
Semest	er	: I					
Duratio	on: 3 Hours				Maximum Marks : 75		
Instru	ctions for Candid	ates					
1. W	rite your Roll No.	on th	ne top immediat	ely on recei <sub>l</sub>	ot of this question paper.		
2. All questions carry equal marks.							
3. Qu	Question No. 1 is compulsory.						
4. Attempt any FIVE questions in all.							
1. (i)	Explain followin	g brie	fly:		(2×5)		
	(a) IMF						
	(b) Break poir	it chlo	orination				
	(c) Polystyren	e		•			
	(d) Threshold	Value	;				
	(e) Electropora	ation		• • •			
(ii)	What is hurdle to	echno	ology? Discuss i	ts application	on in food. (5)		

2. (a) Growth of microorganism is affected by moisture content and pH of food.

Justify.

(4+4)

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	(b)	Discuss the principle and applications of Non-thermal methods of mini processing.	mal (7)				
3.	(a)	What is aseptic packaging? Explain the properties of PET. (4	+4)				
	(b)	Explain the classification of food dispersion and its application in findustries.	food (7)				
4.	Diff	ferentiate between (Any three): (5	i×3)				
	(a)	True solution and colloidal solution					
	(b)	Affective test and Analytical Test					
	(c)	Ethylene vinyl alcohol and Ethylene vinyl acetate					
	(d)	Temporary hardness and Permanent hardness of water					
5.	(a)	Give detailed description of formation, stability and characteristics of foams.	food (8)				
	(b)	Define texture and explain the Sczezniak classification of food texture.	2+5)				
6.	(a)	What is HPP? Explain its process cycle and equipment.	(7)				
	(b)	Discuss the milk plant sanitation.	(8)				
7. V	Wri	rite short note on (Any five): $(5\times3)$					
	(a)	HLB					
	(b)	Advantages of Ohmic heating.					
	(c)	Characteristics of sols					
	(d)	Sanitizers used in food industry					
	(e)	Necessary attributes to become a sensory panel member					
	(f)	BOD					