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MFN-003

02493	Term-End Examination					
MFN-00	03 : FC	OOD MICROBIOLOGY AND SAFE	TY			
Time : 21/2	hours	Maximum Marks	: 75			
	Answei compul	four questions in all. Question No.	1 is			
1. (a)	Diffe	erentiate between the following sets of as:	10			
	(i)	Physical and chemical hazard				
	(ii)	Yeasts and Moulds				
	(iii)	Aflatoxicosis and Deoxynivalenol Mycotoxicosis				
	(iv)	Direct and Indirect food additive				
	(v)	Food label and Nutrition label				
(b)	Fill i	n the blanks :	5			
	(i)	is a voluntary scheme of certification of agricultural products.				
	(ii)	is a measure of free water in a food sample, as opposed to bound				

water.

		pick up moisture without themselves becoming wet are called agents.	
		(iv) Itai Itai disease is an example oftonicity.	
		(v) is one bacteria responsible for the spoilage of cheese.	
2.	then Com	n can be useful in the food industry". The amount on the statement giving appropriate	20
	justi	fications.	
3.	(a)	What do you understand by the term "Food Safety"?	3
	(b)	Briefly discuss some of the recent concerns about food safety worldwide today.	7
	(c)	Explain the physical methods you would adopt to control the growth of microorganisms.	10
4.	(a)	Differentiate between the following giving appropriate examples. (i) Food infection (ii) Food intoxication (iii) Food -borne toxic infections	5
		(m) 1000 -bottle toxic infections	

(b)	Discuss about the causative agent and
	methods of control for any one disease
	condition, from each of the above (a,b,c)
	listed diseases 5+5+5

5. Explain the following briefly:

5+5+5+5

- (a) Complications linked to shell fish poisoning
- (b) Ways to reduce our exposure to various food contaminants
- (c) Various methods of packaging employed in the food industry.
- (d) Types and uses of cleaning compounds in the food industry.
- **6.** (a) Explain the functional role of food **10** additives, giving appropriate examples.
 - (b) If you were to set up a milk processing unit, how would you apply the HACCP principles to provide safe milk to the customers? Discuss briefly.

- 7. Write short notes on any FOUR of the following
 - (a) The prevention of Food 5+5+5+5

 Adulteration Act. 1954
 - (b) The three elements of risk analysis
 - (c) Hygiene requirements for setting up a food service unit
 - (d) Classification of adulterants
 - (e) Spoilage of cereals and cereal products.