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MFT-002

POST GRADUATE DIPLOMA IN FOOD SCIENCE AND TECHNOLOGY (PGDFT)

Term-End Examination June, 2018

MFT-002: FOOD MICROBIOLOGY

1 tme	: 3 n	ours Maximum Marks: 70
Note	: (i) Attempt any seven questions.
	(ii) Question No. 1 is compulsory.
	6	iii) All questions carry equal marks.
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1.	Fill	in the blanks with suitable words : 10x1=10
	(a)	Microorganism capable of causing disease is called
	(b)	is a measure of acidity or alkalinity of a solution.
	(c)	Minimum aw for molds is
	(d)	Microbes growing in high levels of salt are
	(e)	Organisms growing at low temperature are
	(f)	are the toxins produced by Molds.
	(g)	Brucellosis is caused by
	(h)	Minimum acetic acid content in vinegar should be
	(i)	The lethal ellect of freezing on bacteria is due to
	(j)	The period of observation of MBRT is hours.

1

Expla (a) (b) (c)	ain any two of the followings: Useful bacteria and their application. Harmful spoilage molds in foods. Characteristics of a good starter culture.	2x5=10
Give (a) (b) (c) (d) (e)	the principle of followings: Negative staining Gram staining Endospore staining Most Probable Number (MPN) method ELISA	5x2=10
(a)	Ropiness in milk	5x2=10 ia.
Describe bacterial growth curve and name the various factors influencing microbial growth in foods.		
Describe the spoilage of meat. What are the preservation techniques used for meat and meat products?		
(a)		nd 5
(b)		tic 5
Write (a) (b) (c)	Different types of microbiological grow media PCR	th 2x5=10
	(a) (b) (c) (d) (e) Explain (a) (b) (c) (d) (e) Description (a) (b) Writt (a) (b)	 (b) Harmful spoilage molds in foods. (c) Characteristics of a good starter culture. Give the principle of followings: (a) Negative staining (b) Gram staining (c) Endospore staining (d) Most Probable Number (MPN) method (e) ELISA Explain the followings: (a) Ropiness in milk (b) Antimicrobial activity of lactic acid bacter (c) D and F values (d) Bloating of cons (e) Potassium metabisulphite Describe bacterial growth curve and name tvarious factors influencing microbial growth foods. Describe the spoilage of meat. What are transported to techniques used for meat and marked products? (a) Differentiate between food intoxication are food infection with suitable examples. (b) Describe the therapeutic benefits of probiod organisms. Write short notes on any two of the followings (a) Different types of microbiological grow media (b) PCR

2

MFT-002