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(Contd.)

5.		e the classification and importance of yeast in foo	od. 12								
	1 1150	OR									
	Give an account of classification, structure and importance of molds in food.										
6.	(A)	Define media. Give its classification and types.	4								
	(B)	What is pure culture? Explain any one method to prepare pure culture.									
	(C)	State the importance of sterilization in formicrobiology.	od 4								
OR											
	(D)	What is staining? Explain gram +ve staining.	4								
	(E)	Discuss serial dilution technique.	4								
	(F)	Discuss the terms asepsis and contamination.	4								
7.	(A) Explain the factors affecting spoilage microplor										
			4								
	(B)	What are the indicators of microbial spoilage?	4								
	(C)	What is fermentation? Explain the advantages.	4								
4											
OR											
	(D)	Discuss Clostridium Botulinum.	4								
	(E)	Sources of microorganisms in food.	4								
	(F)	Microbiology of fruits and vegetables.	4								
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(ii)	Asp	Aspergillus Niger is :				3.	(A)	Explain the role of oxygen in microbial growth.	
	(a)	Yeast	(b)	Bacteria				4	
	(c)	(c) Moulds (d) Virus			(B)	Enlist the extrinsic parameters that affect the growth of microorganisms. Explain any one.			
(iii)	) The	The technique uses only one dye is:					(C)	Give an account of nutrition of microorganism.	
	(a)	Gram staining	(b)	Capsule staining				4	
	(c)	Simple staining	(d)	Differential staining	ng			OR	
(iv	) Mos	st causes of food p	y:		(D)	Explain any one method for the measurement of cel mass.			
	(a)	Microorganisms	(b)	Heavy metals			(E)	Differentiate between batch culture and continuou	
	(c)	Toxic plants	(d)	Oxidation	2		* /	culture.	
		wer in one sentence:					(F)	What is growth? What are the physiological effect of growth?	
(i) (ii)	Enli	What is food microbiology?  Enlist any four factors affecting growth of				4.	(A)	Discuss the important characteristics of bacteria.	
		microorganisms.					(B)	Classify bacteria on the basis of shape.	
(iii (iv		What are gram positive bacteria?  Define Fungi.  4		4		(C)	Explain the importance of acetobactor bacteria is food.		
2. What is	nomy ? Explain tl	ne ch	aracteristics used	to			OR		
classify microorganisms. 12  OR					12		(D)	Differentiate between gram positive and gram negative bacteria.	
177 1 °			2 <b>1</b> 7		(E)	Define and explain thermophillic bacteria.			
Explain the structure of a microbial cell with its organels and their functions.							(F)	Importance of lactobacillus bacteria in food.	
and the	ir runc	uons.					(-)	· · ·	
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