Q.P. Code:32305

[Time: 2.30 Hours]	[Marks:75]
N.B:  1. All questions are compulsory 2. All questions carry equal marks. 3. Draw labeled diagrams wherever necessary.	paper.
i) Give an example of an organism producing rennet. Name the starter culture used in Cheddar cheese manufacturing iii) Give an example of lactic acid bacteria. iv) State the function of salt in cheese production. v) Give the significance of the phosphatase test. vi) Name a disease transmitted by milk.	re. 03
B) Attempt the following (Any Two)  i) Discuss the method used for production of cheddar cheese	12
ii) Explain the production process of yoghurt.  Elaborate on any two methods to preserve milk.  iv) Write a note on the tests based on oxidation – reduction per determine milk quality.	otential to
Q.2A)Define the following (Any Three)  i) Total Dissolved Solids Biogas iii) Ex-situ bioremediation iv) Phytostabilization N) Biological Oxygen Demand vi) Volatile solids.	03
B) Discuss the following. (Any Two)  i) Pharmaceutical effluent with respect to nature, character strategies.  ii) Three stages involved in biogas production.  Petrocrops as a source of energy.	ristics and treatment
iv)— Phytoremediation with its advantages and disadvantage	es,
Q.3A)Do as instructed (Any Three)	0
Give one example of a leguminous plant.	

Give one example of enzyme used in biosensor.

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111)	Name any one protozoan used as biocontrol agent.	
iv)	Name the most commonly used Nitrogen source for growing Rhizobia.	
V)	Give an example of extenders used in preparing bioinsecticides.	
vi)	Name a spreader used in liquid formulation of a biopesticide.	
<b>T</b>		12
B) Attemp	A THE TOHOWING (ANY I WO)	4
1)	Describe criteria for strain selection of an agent that can be used as a	
::\	biofertilizer.  Elaborate on submerged production of <i>Bacillus thuringiensis</i> as biopesticide.	
ii)	Explain biosensor and discuss its role in bioremediation with example.	
iii)	Discuss adventages and limitations of the use of bioinsecticides	
iv)	Discuss advantages and limitations of the use of bioinsecticides.	
1) (1)	II Course of (Amer Thurse)	03
A) Give iu	Il forms of (Any Three)	
1)	TRIPs	
ii)	WIPO	
iii)	GATT	
iv)	GMP GLP	
v) vi)	IPR	
V1)		
R) Attemnt	the following (Any Two)	12
i)	State the various ways in which intellectual property rights can be protected	
ii)	Entrepreneurship plays a significant role in the economic development of a	
11)	nation-Justify.	
iii)	What is Breeder's exemption? State the advantages and disadvantages of	
111)		
:>	PBR. What are patents? Brief explain patenting of life forms.	
IV) 3	What are patents: Differ explain patenting of the former	
***	(AmeriThread)	15
Write sho	ort notes on (Any Three)	1.
y	Butter manufacture	
ji)	Spoilage of pasteurized milk	
HT)	Renewable energy	
iv)	Seed application methods of biofertilizer	
	Parameters for Quality Control	
vi)	Schematic layout of sterile product manufacturing unit	
C Parties		