TKN/KS/16-5939

Sixth Semester B. Sc. Examination BIOTECHNOLOGY

Paper – I

(Applications of Biotechnology)

Tim	ne : T	hree Hours]	[Max.	Marks: 50
1	N. B.	: (1) All questions are compumarks.(2) Draw diagrams whereve	,	, ,
1.	Descr	ribe treatment of water employing	ng Rapid	Sand Filter. 10
		OR		
	(a)	Describe breakpoint chlorination	on.	5
	(b)	Describe the mechanism of tri	ckling fil	ter. 5
2.	Write	short notes on :—		
	(a)	Xenobiotics.		5
	(b)	Bioaccumulation and biomagnit	fication.	5
		OR		
	(c)	Indole test: Principle and Pr	ocedure.	5
	(d)	Membrane filter technique for	coliforms	from water. 5
3.		ribe primary screening methodrially important microorganis OR		isolation of 10
	Drow	_	ribo cia	nificance of
		a typical fermentor and desc us parts.	Tive sigi	10
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4.	(a)	Describe production of cottage cheese.	5		
	(b)	Describe production and use of spirulina.	5		
OR					
	(c)	Write a note on GMP.	5		
	(d)	Describe production of edible mushrooms.	5		
5.	7 1				
	(i)	What is biodeterioration?			
	(ii)	What is meant by sewage?	1		
	(iii)	What is activated sludge?	1		
	(iv)	What is MPN ?	1		
	(v)	Define BOD.	1		
	(vi)	Define coliforms.	1		
	(vii)	What is the purpose of secondary screening of industrially important organisms ?	of 1		
	(viii)	i) Give two examples of therapeutic compounds produced through genetically modified microorganisms.			
	(ix)	Give names of two antifoaming agents.	1		
	(x)	Give two examples of ripened cheeses.	1		
	(xi)	Write names of any two microorganisms which are routinely detected while assessing quality of food			
	(xii)	What is meant by quality control in foo industry?	d 1		
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