NRT/KS/19/2195

Bachelor of Science (B.Sc.) Semester—VI Examination APPLICATIONS OF BIOTECHNOLOGY

Optional Paper—1

(Biotechnology)

Tin	ne : Three Hours] [Maximum	n Marks : 50
	N.B.:—(1) All questions are compulsory and carry equal marks. (2) Draw well labelled diagrams wherever necessary.	
1.	Describe methods of chorination in detail.	10
	OR	
	Write notes on:	
	(a) Concept of Biodegradation	5
2	(b) Activated sludge treatment.	5
2.	Describe the principle and mechanism of IMVic Test. OR	10
	Write notes on :	
	(a) MPN	5
	(b) BOD.	5
3.	Explain various parts of a fermentor.	10
	OR	
	Write notes on:	
	(a) Crowded plate technique	5
	(b) Important features of secondary screening of industrially important microorganism	
4.	Explain in detail production of edible mushroom.	10
	OR	
	Write notes on:	
	(a) Types of cheese	5
	(b) Quality assurance in pharmaceutical industry.	5
5.	Solve any TEN of the following:	
	(i) Define biotransformation	1
	(ii) What is ozonation?	1
	(iii) Name a biogas formed in an anaerobic digester.	1
	(iv) What are recalcitrant compounds?	1
	(v) Define Xenobiotics.	1
	(vi) Define biomagnification.	1
	(vii) What is meant by GMO?	1
	(viii) Name any one pharmaceutical product produced by GMO's.	1
	(ix) What is meant by antifoaming agents?	1
	(x) Name any one example of SCP.	1
	(xi) Mention any one good manufacturing practice in Pharmaceutical industry.	1
	(xii) What is meant by ripening of cheese?	1
	(iii) ", had to mount of ripoining or one one .	