5.	Expl	ain:		AQ-762A				
	(a)	Sewage	4					
	<ul><li>(b) Biogas production</li><li>(c) Solid waste management</li><li>OR</li></ul>		4	Ţ	B.Sc. Part-III (Semester - VI) Examination 6S: INDUSTRIAL MICROBIOLOGY			
			4	•				
	(d) Biological methods for treatment of industrial efflue		ents 4	(Tiss	(Tissue Culture and Industrial Waste Management			
	(e)	Composting	4					
	(f)	Biogas plant	4	Time—	Three Hours]	[Maximum Marks—80		
6.	Describe the bioremediation with advantages			N	N.B.:— (1) ALL questions are compulsory.			
	disadvantages.		12	•	(2) Draw neat & labelled dia			
	OR				necessary.			
	Explain the role of microbes in degradation of crude				•			
	& re	ecovery of metals.	12	. 1. (A	A) Fill in the blanks:			
-	Г.	The latest markets for the control	£					
7.	Describe in detail various funding agencies biotechnological products.  OR		10r 12		(i) The ability of pla	ant cells to regenerate into		
			12		complete plants	lants is called		
	Des	cribe in detail principles of patenting.	12		(ii) The plant part which	ch is cultured is called		
					(iii) A hybrid produce	ed by fusion of somatic cells		
				· i	of two varieties is	s called		
				!	. , _	nsferred into an organism by ng is called		
						2		
		·						

(B)	Choo	oose correct alternatives.		2.	Explain:		
(-)					(a)	Organ culture	4
		(a) CH <sub>4</sub>			(b)	Continuous cell line	4
		(b) CH			(c)	Primary explant technique	4
		(c) O,				OR	
		(d) All above			(d)	Composition of animal cell culture	4
	(ii)	ytokinin promotes regeneration of			(e)	Mechanical degeneration	4
	` '	(a) Shoot			(f)	Application of cell lines	4
		(b) Roots					
•		(c) Leaves		3.	Exp	plain:	
		(d) Both (a) & (b)			(a)	Shoot regeneration	4
	(iii)	The non-degradable compound	d is called		(b)	Surface sterilization of explant	4
		(a) Degradation			(c)	Ovary culture	4
		(b) Plants				OR	
		(c) Xenobiotics			(d)	Somatic embryogenesis	4
		(d) Glucose v) Which is the funding agencies fo			(e)	Anther culture	4
	(iv)		ncies for new		(f)	Media constituents of plant tissue culture.	4
		projects?	•	4.	De	Describe:	
		(a) Rajiv Gandhi Jivandayi Y	ojana		(a)	Protoplast isolation	4
		(b) Atal Pension Yojana (c) Pantpradhan Rojgar Yojana			(b)	Improvement of crop yield & quality	4
			na 2		(c)	Biotic stress	4
		(d) Mahila Bachat Gat	2			OR	
(C	,	Answer in one sentence:			(d)	Protoplast fusion	4
	(i)	What is culture media?	•		(e)	Transgenic plants	4
	(ii)	) Define callus			(f)	Application of hybrid cells	4
	(iii)						
	(iv)	Detitie tegeneration	·				
UBS-50	0084	2	(Contd.)	U	BS50	0084 3	(Contd.