M.Sc.(Microbiology) (CBCS Pattern) Semester - II **PSMBT-107 - Paper-III : Microbial Methods for Environmental Management**

P. Pages : 1 Time : Three Hour			GUG/S/23/11218 Max. Marks : 80
	Note	s: 1. All questions are compulsory and carry equal marks.	
1.		Describe the concept and consequences of biomagnifications of Pesticide	-s. 16
		OR	
		Write in detail about biodeterioration of pharmaceutical products.	16
2.		Describe the role of microorganisms in the biotransformation process of write its applications.	Mercury and 16
		OR	
	a)	Describe the biodegradation of Plastic.	8
	b)	Describe the role of microbes in the bioleaching of copper.	8
3.	a)	Describe the working mechanism of Activated Sludge method for waste	water treatment. 8
	b)	Describe the principle and working mechanism of Rotary Biological Con	tactor. 8
		OR	
	c)	Describe the trickling filter method in waste water management.	8
	d)	Describe the working mechanism of fluidized bed reactor in waste water	treatment. 8
4.		Describe in detailed about causes and effect of Globle worming on enviro	onment. 16
		OR	
	a)	Describe the concept of acid mine drainage and its impact on environmer	nt. 8
	b)	Discuss the impact and biotechnological approach of Acid Rain on Globa	al environment. 8
5.		Write a note on-	
		a) Factors influencing eutrophication	4
		b) Bioleaching of ores	4
		c) Stabilization Pond	4
		d) Green House effect.	4
