



## Eighth Semester B.E. Degree Examination, June/July 2019

## **Environmental BT**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, selecting

at least TWO questions from each part.			
		PART – A	uor.
1	a.	The role of microorganisms are crucial in biogeochemical cycle. Justify your answ	(10 Marks)
	b.	What are Xenobiotics? Discuss their characteristics that aid in bioaccumulation.	(10 Marks)
	U.	What are Achoriotics: Discuss their characteristics that are in bloaceaniatasion.	(1011-101)
2	a.	With a neat sketch, explain conventional activated sludge process.	(05 Marks)
4	b.	Discuss any two waste treatment processes involved in the removal of nitrogen.	(10 Marks)
	c.	Outline the processes involved in the treatment of effluent from sugar industries.	(05 Marks)
	О.	Outline the processes involved in the framework of a second of the processes in the framework of the processes in the process	,
3		Write short notes on:	
	a.	Treatment of hazardous wastes	
	b.	Composting	
	C.	Reverse osmosis in waste water treatment	
	d.	Phostrip	(20 Marks)
4	a.	What is biogas? With a neat diagram, explain the production of biogas highlighting the role	
		of microorganisms.	(10 Marks)
	b.		
		biomedical wastes.	(10 Marks)
		$\frac{PART - B}{PART - B}$	
5	a.	. What are conventional fuels? Discuss the impact of conventional fuels on the environment. (10 Marks)	
	h	Waste is an energy core. Substantiate your answer.	(10 Marks)
	b.	waste is all energy core. Substantiate your answer.	(10 1/11/15)
6	a.	What is bioleaching? Explain the leaching of copper from its ores.	(10 Marks)
U	b.	Write short notes on:	,
	٥.	i) Gasification of wastes	
(10 Marks)			

ii) Methanol production from organic waste

(10 Marks)

Discuss the role of micro organisms in bioremediation process.

(10 Marks)

Write short notes on:

Significance of bioindicators

ii) Biofilms

(10 Marks)

Briefly discuss the role of biotechnology in ex-situ conservation of biodiversity.

What are the various threats to biodiversity? Add a note of biodiversity hot spots. (10 Marks)