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B.Sc. (Part - III) (Semester - VI) (CBCS)

Examination, March - 2024

MICROBIOLOGY (Paper-XV) (DSE F51)

Environmental Microbiology

Sub. Code: 81706	

Day and Date: Thursday, 28-03-2024 Total Marks: 40

Time: 02.30 p.m. to 04.30 p.m.

Instruction: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

Q.1) Choose the correct alternative and rewrite the sentence. [8] i) is a measure of combined content of all inorganic and organic matter in wastewater.

- a) Total solids
- b) Total dissolved solids
- Total volatile solids c)
- Total suspended solids d)
- occurs when sewage is discharged into the water. ii)
 - Eutrophication a)
- b) Biosparging
- c) Increase in oxygen
- d) Bioremediation
- Trickling filter contains the thin film of organisms developed over inert material, which is called as
 - paragleal a)
- phytogleal

c) zoogleal

- d) mesogleal
- The value of Secchi depth (metres) is usually low in case of lakes. iv)
 - oligotrophic a)
- b) mesotrophic
- eutrophic c)
- both oligo and mesotrophic d)
- The anaerobic biological method used in wastewater treatment is V)
 - septic tank a)
- activated sludge process b)
- trickling filter c)
- d) all of these

34	vi)	Bioc	legradable organic matter i	n cow	age is measured by test.		
		a)	MPN	b)	Flask		
		c)	BOD	d)	COD		
	vii)	The envi	process of assessing the poronment is called as	aggibla	effects of a proposed project on		
	4	a)	EPA	b)	EBA		
	A	c)	EIA	d)	EDA		
	viii)		t zone technology, a methoes where biodegradation oc	d of w	vastewater treatment contains	,,,,,	
		a)	aerobic	b)	anoxic		
		c)	anaerobic	d)	aerobic, anoxic and anaerobic		
Q.2)	Lon	g ans	wer questions (Any two)	:		[16]	
	i)				ogical characteristics of sewage.	, ,	
	ii)	Desc			treatment of waste generated by		
	iii)	Defi biole	ne bioleaching. Explain in eaching.	detail	microbiology and chemistry of		
Q.3)	Wri	te sho	ort notes on : (Any four)			[16]	
	i)		d laboratory practices			[16]	
	ii)	Clas	sification of hospital waste				
	iii)	Root	t zone technology				
	iv)	Proc	ess of eutrophication				
	v)	App	lications of bioremediation				
	vi)	Clea	n room classification				