30. a.	Analyze in detail water quality monitoring and its purposes.	12	3	3	12
b.	(OR) Explain about self purification of streams with suitable sketch.	12	3	3	12
31. a.	Write in detail about the management strategy used for water conservation.	12	2	4	12
b.	(OR) Discuss in detail various types of water quality index.	12	2	4	12
32. a.	Examine in detail roof top harvesting and their benefits with neat sketch.	12	3	5	7
b.	(OR) Describe in detail vulnerability of improper water management.	12	3	5	7

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Reg. No.		

B.Tech. DEGREE EXAMINATION, JUNE 2023

Sixth & Seventh Semester

18CEO405T – WATER POLLUTION AND ITS MANAGEMENT

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note:			
(i)		vithin first 40 minutes and OMR sheet should be hand	ed
(ii)	over to hall invigilator at the end of 40 th minute Part - B & Part - C should be answered in ans		
(11)	Tart - D & Tart - C should be answered in ans	swei bookiet.	
Time: 3	nours	Max. Marks: 10	0
	$PART - A (20 \times 1 = 20)$	Marks BL CO	PO
	Answer ALL Question		
1.	Non point source of pollution is		1
	(A) Cannot be traced to a single (B)	Specific location	
	site of discharge	-F	
		Effluent release from sewer lines	
		mes	
2	Growth of algae is due to	1 1 1	1
2.		pH	
		Temperature	
	(1)	F	
3.	Composite sample refers	1 1 1	1
	(A) Collect one time at one (B)	Collect same location at	
	location	different times	
	(C) Collect twice a year at one (D)	Specific time and location	
	location		
			1
4.	What is the most suitable storage containe	1 101 Heavy Metals:	1
		Polyethylene	
	(C) Plastic (D)	Stainless steel	
5	Hanry motel is noisonous et	1 1 2	1
5.	Heavy metal is poisonous at(B)	Medium density	
		Low concentration	
	(C) Tright concentration (D)	Low concentration	
6.	According to the physical characteristics	what is the optimum temperature 1 1 2	1
	should be maintained in the drinking water		
		25°C	
		45°C	
7.	In the given below which is one amor contamination?	ng the reason for ground water 1 1 2	1
		Unconfined aquifer	
		Hydraulic condition	
		-	

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0	To discuss the state of the sta	1	1	1	1	2	1
8.	In the given which is belongs to phy (A) Volatile suspended solids (C) Dissolved oxygen	(B)	Organic constituents	1	1	_	
		` /				7	
9.	Which is not part of mitigation meadue to industries?	asures f	for water pollution contamination	1	1	3	1
	(A) Use of bio-degradable of	or (B)	Monitoring of ground water				
	treated additives (C) Cluster sampling approach	(D)	Dewatering of sludges				
	1			1	1	2	,
	According to, state pollupower to take action against any de			1	1	3	1
	(A) National environment police						
	2008 (C) Hazardous waste Act 1989	(D)	National sanitation policy 2006				
11		. ,		1	1	3	1
11.	Which is used to represent groundv (A) Origin plot	-	Carto map	1	1	5	1
	(C) Chart	` '	Piper plot				
12.	In the given which is not the purpos	se of w	ater quality monitoring?	1	1	3	1
	(A) To identify specific pollutar	nt (B)	To determine chemical				
	and source of pollution (C) To screen for impairment		constituent's trend over time To improve the spatial				
	(c) To serven for impunition	(D)	monitoring				
13.	Water quality index is not evaluate	d based	on the given parameter	1	1	4	1
	(A) Bacteriological	(B)	Water quantity				
	(C) Physical	(D)	Chemical				
14.	In the given below which is not a	a part o	of management strategy used for	1	1	4	1
	water conservation? (A) Reduce water demand	(B)	Increase water supply				
	(C) Promote resource Stewardship	` /	Remove and dispose the	;			
			polluting matter				
15.	Choose the wrong statement		1.1.	1	1	4	1
*	(A) Environmental indicator describe the behaviour of separate component of the environment						
	(B) Environmental indicators q	-					
	environmental issues in orde	er to m	ake this information usable and	L			
	(C) Environmental indicators m			1			
	condition over a period of time (D) Environmental indicators do	_		1			
	geographic position		-				
16.	SPCB stands for			1	1	4	1
	(A) State pollution control board	(B)	State prevention commission board	l			
	(C) State prevention control board	d (D)	State pollution collateral board				
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17.	is producing water supply and sewage facilities in the entire state of Tamil Nadu.			1	1	5	1
	(A) TWAD board	(B)	CMWSSB board				
	(C) Water Act 1974	(D)	Water Act 1976				
18.	June 5 th is celebrated as			1	1	5	1
	(A) World water day		Rainwater harvesting day				
	(C) World environment day	(D)	Water crisis management day				
19.	when a city taps dry ou line.	t and po	eople have to stand for water in	i	1	5	1
	(A) Water dry day		Zero water day				
	(C) Water crisis day	(D)	World water crisis day				
20.	In the given below which is not harvesting?	a sub c	component of root top rainwater	1	1	5	1
	(A) Catchment		Transportation				
	(C) First flush	(D)	Aquifer				
	PART – B ($5 \times 4 =$	20 Marks)	Marks	BL	со	РО
	Answer AN	Y FIVE	Questions				
21.	21. List out the variables used for model transport of pollutant.				2	1	1
22.	. Write short notes on water quality standards.			4	2	2	1
23.	. What are the various software's used for water quality monitoring?			4	2	3	1
24.	24. Briefly describe role of pollution control board.			4	2	4	1
25.	Differentiate world water and environment day.			4	3	5	7
26.	Why public awareness is essential to reduce water pollution?			4	3	1	12
27.	Define sustainable development and brief its significance.			4	2	5	1
	PART – C (5 × 1	2 = 60	Marks)	Marks	BL	СО	PO
	Answer ALL		•				
28. a.	Illustrate in detail about eutrophica	ation and	d their process with neat sketch.	12	3	1	1
L.	(OF	,	armong of viotan mollistian	12	3	1	1
D.	Explain in detail about various typ	es and s	ources of water pollution.		,	•	-
29. a.	Demonstrate in detail the physical	charact	eristics of waste water.	12	2	2	3
b.	(OF Evaluate in detail the effects of gro	,	ter pollution.	12	2	2	3

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