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Reg. No.					

## **B.Tech. DEGREE EXAMINATION, NOVEMBER 2022**

Sixth/ Seventh Semester

## 18CEO405T - WATER POLLUTION AND ITS MANAGEMENT

(For the candidates admitted from the academic year 2018-2019 to 2019-2020)

## Note: Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed (i) over to hall invigilator at the end of 40th minute. Part - B should be answered in answer booklet. Time: 21/2 Hours Max. Marks: 75 Marks BL CO PO $PART - A (25 \times 1 = 25 Marks)$ Answer ALL Questions 1. According to BIS standards that allowable limit of TDS is? (B) Less than 0.3 mg/L (A) Less than 250 mg/L

bacteria which is harmful to human health?

6. Determination of steam increment is utilized for the observing of

8. During dry season, control of river contamination should be giving the

9. Which is the major source of water used by the industries in India?

7. River monitoring framework can be carried out by using

can lead to high concentration of unwanted algae growth?

(D) Less than 50 mg/L

(B) Pseudomonas

(D) Pathogenic

(B) Nutrients

(B) Pollution zone

(D) Organic zone

(B) River pollution (D) Tank pollution

(B) Automatic sensors

(B) Municipal water

(D) Surface water

(B) Hepatitis (D) Dysentery

(D) Turbines

(B) Nitrogen

(D) Oxygen

(D) Zinc

1 1 1

1 1 1 1

1 2 1 3

1 2 1 1

2 2 1

1 2 2 1

1 2 2 1

2 2 1

23NF6/7/18CEO405T

(C) Less than 500 mg/L

4. Heavy organic pollution can lead to

(A) Algae

(C) Comamonas

(A) Calcium (C) Lead

(A) Dead zone

(C) Live zone

(A) Typhoid

(A) Motors

(A) Water

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Page 1 of 3

(C) Poliomyelitis

(A) Sea pollution

(C) Lake pollution

(C) Automatic motors

(C) Carbon-di-oxide

(A) Rain water

(C) Ground water

5. Amocliasis is also called as

10.	Water is available easily for	% of	industries.	1	1	2	2
	(A) 25%	(B)	77%				
	(C) 17%	(D)	40%				
11.	is the essential element of	FICCI w	ater mission	1	2	3	1
	(A) Zero discharge						
	(C) Access to safe water						
	(C) Ticcess to sale water	(D)	Tuone nearm				
12.	A process for the ultimate remova			1	2	3	1
	(A) Nitrification	(B)	Denitrification				
	(C) Ammonification	(D)	Reduction				
13	Industrial waste water does not co	neist of t	the following types?	1	1	3	1
13.			- · · -				
	(A) Process waste water						
	(C) Runoff waste water	(D)	Hot waste water				
14.	The surface water quality is affect	ted by ru	noff and from rainfall.	1	2	3	1
	(A) Precipitation	(B)	Infiltration				
	(C) Farming	(D)	Wetlands				
15.		been im	plied mainly to pre-treatment of	1	2	3	1
	industrial wastewater.						
	(A) Bio flocculent	` /	Salts				
	(C) Chemical coagulation	(D)	Chorine				
16.	By pass of effluent discharge cor	nes unde	er which stage of water pollution	1	2	4	1
10.	act	nos unac	a when suge of water penulion				
	(A) Stage 1	(B)	Stage 2				
	(C) Stage 3	(D)	Stage 4				
17	Enterprises shall adopt emergency	, recnone	e messure based on	1	2	4	2
1 / .	(A) Article 5		Article 3				
	(C) Article 4	` '	Article 2				
	(C) Article 4	(D)	Afficie 2				
18.	According to water pollution and	control a	ct chapter 4 deals with	1	1	4	1
	(A) Storage	(B)	Marine discharge				
	(C) Soil treatment	(D)	Recycling				
19	Which is the first protection act ar	monneed	l in India?	1	2	4	1
~ ~ ~	(A) Environmental act		Water act				
	(C) Air act	` ′	Noise act				
	(C) Thi acc	(D)	Noise act				
20.	Number of subdivisions in water a	act		1	1	4	1
	(A) 60 sections	` ,	64 sections				
	(C) 62 sections	(D)	68 sections				
21.	Which of the option is integrated a	as sustair	nable development factors?	1	2	5	1
	(A) Restoration		Storage				
	(C) Carrying capacity		Reduction				
	(5) Carrying outputty	(D)	ROGUCHOH				

22.	Ground water can get naturally recharged through  (A) Precipitation (B) Climate change  (C) Evaporation (D) Percolation	1	1	5	1
23.	The pipe transporting rainwater should be resistance to  (A) X ray (B) UV ray (C) IR ray (D) Thermal ray	1	1	5	1
24.	CPCB under Water (Prevention and control of pollution) Act aims to promote	1	2	5	1
9	<ul><li>(A) Cleanliness of streams</li><li>(B) Zero discharge</li><li>(C) Industrial role</li><li>(D) Public health</li></ul>				
25.	The first and foremost functions of CMWSSB are  (A) Water quality (B) Public health (C) Industrial control (D) Water storage	1	1	5	1
	PART – B ( $5 \times 10 = 50$ Marks) Answer ALL Questions	Marks	BL 15	СО	PO
26. a.	Demonstrate the sources, types and the effects of water pollution.	10	4	1	1
b.	(OR) Illustrate the methods of sampling and its procedure of collection and storage to assess the water quality standards.	10	<sub>2</sub> 4	1	1
27. a.	Develop the methods to detect the physical quality of drinking water and formulate the basic physical properties.	10	5	2	1
b.	(OR) How will you analyse the impact on effluent in ground water? Explain in brief the effects of ground water pollution.	10	3	2	1
28. a.	Compare and contrast the effluent treatment methods and technologies adopted in tannery industries.	10	4	3	1
b.	(OR) With evidences explain the adverse effects of thermal pollution on the environment.	10	4	3	1
29. a.	Justify the effective role of MoEF in controlling the water pollution.	10	6	4	2
b.	(OR) Discuss about the Water (prevention and control of pollution) Act 1974.	10	2	4	2
30. a.	With a suitable sketches, explain the various methods of rain water harvesting system.	10	4	5	1
b.	(OR) With a case study, critically uprise the effective water management system for an urban area.	10	6	5	1

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