

Reg. No.																			
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

B.Tech. DEGREE EXAMINATION, MAY 2022
Sixth & Seventh Semester

18CEO405T – WATER POLLUTION AND ITS MANAGEMENT
(For the candidates admitted from the academic year 2018-2019 to 2019-2020)

Note:

- (i) **Part - A** should be answered in OMR sheet within first 40 minutes and OMR sheet should be handed over to hall invigilator at the end of 40th minute.
- (ii) **Part - B** should be answered in answer booklet.

Time: 2½ Hours

Max. Marks: 75

PART – A (25 × 1 = 25 Marks)

Answer **ALL** Questions

	Marks	BL	CO	PO
1. The example of industrial waste water is (A) Kitchen (B) Vegetable waste (C) Sugar factories (D) Sediment runoff	1	1	1	3
2. The algae form a layer on top of pond or lake is (A) Food chain (B) Eutrophication (C) Pollution (D) Toxic	1	1	1	1
3. _____ indicates the rain water of the locality (A) Waste water (B) Suspended form (C) Storm water (D) Industrial waste water	1	2	1	7
4. Water samples are usually obtained by filling a container held beneath the surface of water. (A) Grab sampling (B) Integrated sampling (C) Composite sampling (D) Horizontal sampling	1	2	1	2
5. The waste water generated from bathrooms, kitchens, washing place and wash basins is known as _____. (A) Storm water (B) Sullage (C) Waste water (D) Industrial water	1	1	1	2
6. Which one of the following are physical impurities? (A) Algae (B) Fungi (C) Vegetables (D) Turbidity	1	2	2	2
7. Hardness determined by _____ method. (A) Osmoscope (B) EDTA (C) Reverse osmosis (D) Tintometer	1	1	2	2
8. The pH value of trade effluent for inland surface water is (A) 4 to 5.5 (B) 5 to 7 (C) 5.5 to 9.0 (D) 6.5 to 8.5	1	1	2	7

9. _____ disease is related to water borne. 1 1 2 7
 (A) Cancer (B) Fever
 (C) Cholera (D) Joint pain
10. The places that our garbage is taken to be buried is known as 1 1 2 1
 (A) Atmospheric contaminants (B) Chemicals
 (C) Storage tanks (D) Landfills
11. _____ is horizontal movement of a mass of fluid. 1 1 3 7
 (A) Diffusion (B) Advection
 (C) Dispersion (D) Leaching
12. _____ chemical reaction of the interaction of chemicals with water leading to the decomposition of both substance and water. 1 1 3 7
 (A) Oxidation (B) Adsorption
 (C) Sediment (D) Hydrolysis
13. The recovery zones of pollution in a river stream _____ will be present. 1 1 3 7
 (A) Isopods (B) Mosquito larvae
 (C) Trout (D) Stone fly
14. The Water (Prevention and Control of Pollution Act) introduced in 1 1 3 7
 (A) 1972 (B) 1976
 (C) 1974 (D) 1978
15. _____ pollution control board advise the central government on any matter concerning prevention and control of water pollution. 1 1 3 2
 (A) State (B) District
 (C) Central (D) Block
16. The irrigation systems deliver water directly to a plant roots is known as 1 2 4 4
 (A) Crip (B) Drip
 (C) Trip (D) Strip
17. _____ is a material spread on top of the soil to conserve moisture 1 1 4 7
 (A) Weed (B) Paddy
 (C) Mulch (D) Sugar can
18. The presently available ground water resource due to various recharge is 1 1 4 7
 (A) 432 billion m³ (B) 632 billion m³
 (C) 832 billion m³ (D) 232 billion m³
19. The _____ audits at regular intervals help the management to take stock of situation threatens closure due to non-availability of water. 1 1 4 3
 (A) Water (B) Social
 (C) Chemical (D) Bank
20. The crops reduce weed, increase soil fertility and organic matter and prevent erosion and compaction is 1 2 4 7
 (A) Paddy (B) Sugar cane
 (C) Cover crop (D) Millets

21. The collection and storage of rain, rather than allowing to runoff is 1 1 5 4
 (A) Drain water harvesting (B) Storm water harvesting
 (C) Waste water harvesting (D) Rainwater harvesting
22. _____ development that meets needs of the present without comprising the ability of future generations to meet their own needs 1 1 5 7
 (A) Sustainable (B) Global
 (C) Local (D) Moderate
23. The world water day is celebrated on 1 1 5 1
 (A) 22 March (B) 22 February
 (C) 22 April (D) 22 May
24. The kind of water consumption in the evaluation process is _____. 1 1 5 4
 (A) Specific consumption indices (B) Planning indices
 (C) Public indices (D) Statistical indices
25. Tamil Nadu Water supply and drainage board is constituted in the year 1 1 5 3
 (A) 1970 (B) 1971
 (C) 1972 (D) 1973

PART – B (5 × 10 = 50 Marks)
 Answer ALL Questions

- | | Marks | BL | CO | PO |
|---|-------|----|----|----|
| 26. a. Explain in detail about types of pollutants. | 10 | 2 | 1 | 7 |
| (OR) | | | | |
| b. Describe in detail about effects of water pollution. | 10 | 2 | 1 | 4 |
| 27. a. Discuss any five water quality standard in detail. | 10 | 2 | 2 | 3 |
| (OR) | | | | |
| b. Write in detail about sampling methods of ground water pollution. | 10 | 2 | 2 | 7 |
| 28. a. Explain about thermal pollution and its adverse effects. | 10 | 2 | 3 | 7 |
| (OR) | | | | |
| b. List the types and steps involved in water quality monitoring. | 10 | 2 | 3 | 4 |
| 29. a. Discuss in detail about ground water management. | 10 | 2 | 4 | 4 |
| (OR) | | | | |
| b. Describe in detail about water quality index and its types. | 10 | 2 | 4 | 3 |
| 30. a. List in detail about rain water harvesting and its classification. | 10 | 2 | 5 | 7 |
| (OR) | | | | |
| b. Explain the role of TWAD board in detail with examples. | 10 | 2 | 5 | 1 |
