

12. In self purification of rivers the sequence of Decomposition stage comes after _____ stage (A) Clear (C) Recovery	(B) Septic (D) Decomposition	1	2	3
13. The CPCB is empowered by section _____ of Water (Prevention and Control of Pollution) Act, 1974 to give directions to the state pollution Control boards. (A) 16 (C) 18	(B) 17 (D) 19	1	1	4
14. Soil and water conservation is done to _____ (A) Increase Infiltration (C) Stop Infiltration	(B) Decrease Infiltration (D) Avoid infiltration	1	2	4
15. Among the following which is not a biodiversity indicator? (A) Species of national interest (C) Nutrients in freshwater	(B) Species diversity (D) Genera diversity	1	2	4
16. Among the following which is not a groundwater management technique? (A) Interbasin transfer of groundwater (C) Interbasin transfer of water	(B) Artificial groundwater recharge (D) Recharge through rainwater harvesting	1	2	4
17. World environment day is celebrated on _____ every year. (A) 5 th May (C) 5 th July	(B) 5 th June (D) 5 th August	1	1	5
18. The day when a city's taps dry out and people have to stand in line to collect a daily quota of water is termed as _____. (A) No water day (C) Water crisis day	(B) Water absence day (D) Zero water day	1	2	5
19. TWAD Board is vested with the responsibility of providing (A) Water Supply & Sewerage facilities (C) Only sewerage facility	(B) Only water supply (D) Water quality to be followed in the state	1	2	5
20. The rainwater collected using rooftop rainwater harvesting is evaluated using the expression ____ (A) Collection area x Rainfall depth x Collection efficiency (C) Rainfall depth /Collection efficiency	(B) Collection area / Collection efficiency (D) (Collection area x Rainfall depth) / Collection efficiency	1	3	5

PART - B (5 × 4 = 20 Marks)

Answer **any 5** Questions

21. Distinguish between point source of pollution and non-point source of pollution.	4	2	1
22. Write the physical characteristics of wastewater.	4	1	2
23. Write about chemically oxygen demand.	4	2	3
24. Write the actions involved in the self purification of river streams.	4	1	3
25. Write short notes on role of CPCB.	4	2	4
26. State the major objectives of conjunctive use of water.	4	2	4
27. Differentiate between macro and micro level rainwater harvesting.	4	3	5

PART - C (5 × 12 = 60 Marks)

Answer **all** Questions

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| 28. | (a) Write in detail about various types of water pollutants. | 12 | 3 | 1 |
| | (OR) | | | |
| | (b) Write in detail about various water sampling methods. | | | |
| 29. | (a) Explain in detail about waterborne diseases and its impact. | 12 | 3 | 2 |
| | (OR) | | | |
| | (b) Explain about Baylis and Hellige Turbidity meter. | | | |
| 30. | (a) Write in detail about the treatment of industrial waste water. | 12 | 3 | 3 |
| | (OR) | | | |
| | (b) Write in detail about self purification of river stream. | | | |
| 31. | (a) Explain in detail about various types of environmental indicators. | 12 | 3 | 4 |
| | (OR) | | | |
| | (b) Explain in detail about public participation in reducing water pollution and its conservation. | | | |
| 32. | (a) Explain in detail about various awareness programme for water management and its sustainable development? | 12 | 3 | 5 |
| | (OR) | | | |
| | (b) Explain in detail various components of rainwater harvesting. | | | |

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