

Reg. No.

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B. E / B. TECH.DEGREE EXAMINATIONS, MAY 2024
 Sixth Semester
OE18408 – WATER POLLUTION AND ITS MANAGEMENT
(Common to all branches)
(Regulation 2018/2018 A)

TIME:3 HOURS

MAX. MARKS: 100

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Enumerate the sources and characteristics of water pollution.	3
CO 2	Describe the water quality standards.	3
CO 3	Summarise the industrial activity and mitigation measures.	3
CO 4	Summarise the water pollution regulations.	3
CO 5	Describe the role of regulatory bodies.	3

PART- A(10x2=20Marks)
 (Answer all Questions)

	CO	RBT LEVEL
1. What is the function of equalization basin in waste water treatment plant?	1	2
2. Why Dissolved Oxygen (DO) is an important parameter in drinking water quality?	1	2
3. Why do we have water-quality standards and guidelines?	2	2
4. What is self-purification of a river system?	2	2
5. Write a short note on nature of pollutants from paper and pulp industries.	3	2
6. What is meant by siltation? How does it affect the water management?	3	2
7. How many sections and chapter are there in Water Act 1974?	4	2
8. What is the objective of Water Cess Act 1977?	4	2
9. List out any four sustainable goals given by UN council.	5	2
10. Differentiate the role of CMWSSB and TWAD board.	5	2

PART- B (5x 14=70Marks)

	Marks	CO	RBT LEVEL
11.(a) Explain the different stages of waste water treatment process with neat sketch.	(14)	1	2
(OR)			
(b) Describe in detail about the ill effects of water pollution with suitable case study.	(14)	1	2
12.(a) Elaborate on surface water quality in India in detail.	(14)	2	2
(OR)			
(b) Explain the drinking water quality standards as per IS 10500:2012. Also discuss the different classes of criteria for designated best use of surface water.	(14)	2	2
13.(a) Explain the different causes of water pollution in different industries. Also highlight the waste water characteristics of food industries.	(14)	3	2
(OR)			
(b) (i) Explain the role of stakeholders in water conservation & management.	(07)	3	2
(ii) Discuss in detail about steps taken by government of India in conservation of water bodies.	(07)	3	2
14.(a) Elaborate on the salient features of Water Act (Prevention and control of Pollution) 1974	(14)	4	2
(OR)			
(b) Discuss in detail about the Water (Prevention and control of Pollution) Cess Act 1977.	(14)	4	2
15.(a) Explain in detail about the roof top rain water harvesting technique with a neat sketch.	(14)	5	2
(OR)			
(b) Briefly explain about the role of CPCB in controlling water pollution in India.	(14)	5	2

PART- C (1x 10=10 Marks)

(Q.No.16 is compulsory)

16. Discuss in detail about the groundwater quality in Tamil Nadu.

(10)	2	2
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