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B.E./ B.TECH. DEGREE EXAMINATIONS, MAY 2023

Sixth Semester

OE18408 –WATER POLLUTION AND ITS MANAGEMENT*(Civil Engineering)***(Regulation2018/2018A)****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 BOD?	1	1
2. What is detention time?	1	2
3. How self purification of river works?	2	2
4. List out any four biological characteristics of water.	2	2
5. Write a short note on nature of pollutants from paper and pulp industries.	3	1
6. List out stakeholders in water conservation.	3	2
7. What is the motto of Water Cess Act 1977?	4	2
8. How many Chapters and sections are there in Water Act 1974?	4	2
9. What are the sources of drinking water for Chennai city?	5	2
10. Write about the role of CPCB in controlling water pollution in India.	5	2

PART- B (5x 14=70Marks)

	Marks	CO	RBT LEVEL
11. (a) Describe in detail about the different stages of waste water treatment process with a neat sketch.	(14)	1	3
(OR)			
(b) Explain in detail about Eutrophication.	(14)	1	3

- 12. (a)** List out the drinking water quality standards as per IS 10500:2012. **(14) 2 3**
- (OR)**
- (b)** Describe in detail about different causes and effects of water pollution. **(14) 2 3**
- 13. (a)** Discuss in detail about the functions and important schemes (Any 3 schemes) of Ministry of Jal Shakthi. **(14) 3 3**
- (OR)**
- (b)** Explain in detail about the mitigation measures to be taken to control water contamination due to industries. **(14) 3 3**
- 14. (a)** Prepare a report on Water (Prevention and control of Pollution) Cess Act 1977. **(14) 4 3**
- (OR)**
- (b)** Briefly explain the feature of Water Act (Prevention and control of Pollution) 1974. **(14) 4 3**
- 15. (a)** Explain in detail about different methods of Rain Water Harvesting with a neat sketch. **(14) 5 3**
- (OR)**
- (b)** Discuss in detail about the Sustainable Development Goals (SDG). **(14) 5 3**

PART- C (1x 10=10Marks)

(Q.No.16 is compulsory)

- | | Marks | CO | RBT
LEVEL |
|--|-------------|----------|--------------|
| 16. Elaborate on Ground Water quality in India. | (10) | 1 | 5 |
