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18CHE12/22

Module-4

7 a. What are the main sources, effects and control of lead pollution? (07 Marks)
 b. Mention the various causes, effects and disposal methods of e — waste. (07 Marks)
 c. 50 mC of an industrial sewage has consumed 11.5 mf of 0.4N K 2Cr2O7 solution for complete oxidation. Calculate C.O.D of industrial sewage. (06 Marks)

OR

8	a. E	Explain the activated sludge treatment of sewage water_	(07 Marks)
	b.	What is Desalination? Describe the desalination of seawater by reverse Osmosis p	rocess.
			(07 Marks)
	c.	Write a note on Ozone depletion.	(06 Marks)

Module_5

9	a. Explain the theory, Instrumentation and Application of Calorimetry.	(06 Marks)
	b. What is Potentiometric titration? Explain the principle involved in Potentiomet	tric titration.
		(07 Marks)
	 Write a note on Fullerene. Mention its application. 	(07 Marks)

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OR

	OR	
10	a What are Nano — materials? Give their synthesis by Sol — gel techniques.	(07 Marks)
	b. Write a note on Graphenes. Mention their applications.	(07 Marks)
	e Explain the theory and applications of Atomic Absorption Spectrosco py.	(06 Marks)
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