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BICEE-024

B.Tech. CIVIL ENGINEERING (BTCLEVI)

Term-End Examination

00525

June, 2019

BICEE-024 : ADVANCED ENVIRONMENTAL ENGINEERING

Time : 3 hours

Maximum Marks : 70

- Note: Answer any five questions. All questions carry equal marks. Use of scientific calculator is allowed. Assume suitable data, if missing.
- (a) Describe the workings and significant features of a multimedia filter with the help of a neat sketch.
 - (b) What are the various zones of pollution formed after the wastewater stream is added to a water body ?
- Explain the various methods of disinfection being used for water treatment.
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3.	(a)	Describe the process of self-purification in natural waters.	7
	(b)	The sewage of a town is to be discharged into a river stream. The quantity of sewage produced per day is 8 million litres and its BOD is 250 mg/l. If the discharge in the river is 200 l /s and its BOD is 6 mg/l, find out the BOD of the diluted water.	7
4.	(a)	Explain the process of extended aeration used for treatment of waste waters.	7
	(b)	Give the significant features of a Biofiltration unit.	7
5.	(a)	What are the various methods to recover materials from effluents ?	7
	(b)	What are the harmful effects of nitrogen oxides ? How can these be controlled in ambient air ?	7
6.	(a)	Explain the fundamentals of sound generation in atmosphere.	7
	(b)	What are the various techniques for removal of taste from water ?	7
7.	(a)	Describe the techniques to measure noise.	7
	(b)	What are the harmful effects of sulphur dioxide and hydrocarbons in the ambient air on human beings?	7
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