	DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE **Supplementary Examination – Summer 2022** **Course: B. Tech. Branch : Civil Engineering Semester : V** **Subject Code & Name: BTCVC504 Environmental Engineering** **Max Marks: 60 Date: Duration: 3 Hr.**		
	Instructions to the Students: *1. All the questions are compulsory.* *2. The level of question/expected answer as per OBE or the Course Outcome (CO) on which the question is based is mentioned in ( ) in front of the question.* *3. Use of non-programmable scientific calculators is allowed.* *4. Assume suitable data wherever necessary and mention it clearly.*		
		(Level/CO)	Marks
Q. 1	**Solve Any Two of the following.**		
A)	Explain in brief different methods of population forecasting.	CO1	**6**
B)	Explain the different physical, chemical and biological characteristics of water.	CO1	**6**
C)	What are the different factors that which directly affect the per capita demand of town?	CO1	**6**
Q.2	**Solve Any Two of the following.**		
A)	Explain in short water treatment process. Draw its flow diagram.	CO2	**6**
B)	What does mean by sedimentation? What are the different types of sedimentation tanks?	CO2	**6**
C)	What are the different types of filters? Explain all these types in brief.	CO2	**6**
Q. 3	**Solve Any Two of the following.**		
A)	What are the various methods of water supply?	CO3	**6**
B)	Draw the layout of water distribution system.	CO3	**6**
C)	Differentiate continuous and intermittent system of water supply.	CO3	**6**
Q.4	**Solve Any Two of the following.**		
A)	Give the physical, chemical, biological characteristics of domestic sewage from urban.	CO4	**6**
B)	Difference in between separate and combined system.	CO4	**6**
C)	Describe various sources of solid waste and Explain important physical & chemical characteristics of solid waste.	CO5	**6**
Q. 5	**Solve Any Two of the following.**		

A)	Describe various methods used to control air pollution	CO6	**6**
B)	Explain relationship between environmental lapse rate & adiabatic lapse rate.	CO6	**6**
C)	Describe various causes of air pollution and explain how to control air pollution.	CO6	**6**
	***** End *****		

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