

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Regular End Semester Examination – Summer 2022

Course: B. Tech.

Branch : Mechanical

Semester : VI

Subject Code & Name: Sustainable Development BTMEC605B

Max Marks: 60

Date:26/08/2022

Duration: 3.45 Hrs.

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.	(2 x 6)	12
A) Define Sustainability. Discuss briefly the Socio-Environmental and Economic Sustainability concepts	CO1	
B) Explain the role of Technology in Sustainable development.	CO1	
C) Write short note on need of environment sustainability	CO1	
Q.2 Solve Any Two of the following.	(2 x 6)	12
A) Define Global warming and state the reasons. Describe the major impacts and responses to Global Warming	CO2	
B) Classify renewable energy sources? Explain in brief the need of these energy sources with special reference to India	CO2	
C) Explain the concept of Climate Change as a Global Environmental Issue. Discuss its effects	CO2	
Q. 3 Solve Any Two of the following.	(2 x 6)	12
A) Discuss the effects of industrialization and urbanization on sustainable development	CO3	
B) “Any development depends on population”- Discuss	CO3	
C) Explain the impact of resource degradation and sustainability in the context of river sand mining	CO3	
Q.4 Solve Any Two of the following.	(2 x 6)	12
A) What are sustainable development goals (SDGs) explain any TWO SDGs in details	CO4	
B) Discuss salient aspects of environmental impact assessment (EIA). What are its limitations	CO5	
C) Comment on the challenges for sustainable development in our country and suggest a way to overcome the same	CO4	
Q. 5 Solve Any Two of the following.	(2 x 6)	12
A) What do you understand by the term “screening” as applied in EIA	CO5	
B) “state pollution control boards play important role in protection of environment” comment on the statement	CO6	
C) Write short note on role of NGOs in participatory development	CO6	

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