

Enroll. No.

Q. P. Code
UT 3116

Unit Test - II (2025-26)

Third Year B.Tech.

Course Code: OE3044

Course Name: OE-I Renewable Energy Sources

Date : Friday 19/09/2025

Time : 10:30 To 11:30

Max. Marks: 25

- Instructions:
- 1) All questions are compulsory.
 - 2) Figures in rounded () brackets within the question, indicate scheme of marking for respective part of the question, whereas, figures in the first right column indicate total marks for that whole question.
 - 3) CO is the index number of the Course Outcome statement.
 - 4) The Bloom's taxonomy level (BL) for 1,2,3,4,5 and 6 is remember, understand, apply, analyze, evaluate and create respectively.
 - 5) Assume suitable data if necessary.
 - 6) Use of non-programmable calculator is allowed.

		Marks	CO	BT Level
Q.1	Answer the following:			
a)	Describe the global and Indian scenario of wind energy utilization with relevant data or examples.	6	CO2	L2
b)	Explain how wind speed affects the power output of a wind turbine.(4) Use the power formula in your explanation.(2)	6	CO3	L3
<u>OR</u>				
b)	Compare small scale and large scale applications of wind energy with suitable examples.	6	CO3	L4
Q.2	Answer the following:			
a)	Explain the role of bio-energy in waste management and employment generation	6	CO4	L3
b)	Illustrate how bio-energy contributes to rural development with suitable examples.	7	CO2	L3
<u>OR</u>				
b)	Discuss the environmental benefits of using bio-energy over fossil fuels.	7	CO2	L2

