

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Engineering, Mid semester Examination-January-2023

Semester: 4th
Subject Code: 03607344
Subject Name: Renewable Energy Technology

Date: (25/01/2023)
Time: (7.50 am to 9.20 am)
Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

Q.1	Answer any six out of Ten. (2 Marks Each)	(12)	CO	Blooms Taxonomy
	1. Describe the importance of Energy Security		Co1	Understand
	2. Illustrate the Conventional and Non-Conventional Energy Resources		Co1	Apply
	3. What is Solar Constant		Co2	Knowledge
	4. Give the name of Instruments to measure solar radiation		Co2	Apply
	5. What is solar radiation		Co2	Knowledge
	6. List out the different types of Solar Energy Collectors		Co2	Analyze
	7. Draw the Line Diagram for Medium temperature solar thermal power plant.		Co2	Apply
	8. Write down the function of Wind Wane		Co3	Apply
	9. Write down the Advantages of wind farm		Co3	Apply
	10. Draw the neat diagram for Horizontal Axis Wind Turbine		Co3	Analyze
Q.2	A) Explain economic benefits of Renewable energy	(03)	Co1	Analyze
	OR			
	A) Give the classification of Energy Resources and Explain any two types.	(03)	Co1	Apply
	B) Explain energy conservation and its importance	(03)	Co1	Knowledge
	OR			
	B) Explain different Evolutionary Trends in Pollution Problems	(03)	Co1	Knowledge
	C) Write a Short note on Flat Plate Collector System	(04)	Co2	Knowledge
	OR			
	C) Explain Low temperature solar thermal power plant with diagram.	(04)	Co2	Understand
	D) Write down the Advantages and Disadvantages of Solar PV System	(04)	Co2	Understand
Q.3	A) Define the terms: Photo Voltaic Cell, Solar module, Solar Panel, Solar Array	(03)	Co2	Knowledge
	OR			
	A) Give the Classification of wind electrical system.	(03)	Co3	Apply
	B) Give the Name of different Point focusing type Solar collector and explain anyone	(03)	Co2	Understand
	OR			
	B) State various Schemes for electrical generation and Explain any One	(03)	Co3	Knowledge
	C) Give Types of Solar PV Power Generating System and Explain anyone	(04)	Co2	Understand
	OR			
	C) Give the Comparison of horizontal axis wind turbine and vertical axis wind turbine	(04)	Co3	Understand
	D) Write down the Advantages and Limitation of Wind Power Plant	(04)	Co3	Apply

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