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GIET UNIVERSITY, GUNUPUR - 765022

B. Tech (Fifth Semester Regular) Examinations, December - 2023

21BAGES25008- Renewable Power Sources

(AGE)

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right hand margin indicate marks)

PART – A

(2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. Explain about Primary and secondary energy with examples	CO1	K1
b. Explain about wave power	CO1	K1
c. List out the limitations and considerations of Distributed solar power generation	CO2	K1
d. How Dendro thermal energy process is implemented?	CO3	K2
e. What is the concept of biomass energy, and how is it different from other renewable sources?	CO4	K1

PART – B

(15 x 4 = 60 Marks)

Answer **ALL** questions

	Marks	CO #	Blooms Level
2. a. Compare various renewable energy sources with advantages and disadvantages.	15	CO1	K3
(OR)			
b. List out the various applications of Renewable energy sources applicable to Agriculture engineering .	15	CO1	K2
3.a. What is Distributed type solar power plant? Explain the process of power generation with its advantages.	15	CO2	K2
(OR)			
b. Explain OTEC and its types with neat diagrams.	15	CO2	K1
4.a. Explain the operation of hydroelectric power station with neat diagram.	15	CO3	K3
(OR)			
b. Draw the schematic arrangement of hydroelectric power station and explain its each part.	15	CO3	K1
5.a. Explain the process of power generation from urban, municipal and industrial waste.	15	CO4	K3
(OR)			
b. Explain the process of biomass power with advantages and disadvantages .	15	CO4	K1

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