

**UNIT-1**

1. (A) Explain the Environmental consequences of fossil fuel use. [7 Marks;CO1;Understand]
- (B) Describe wind energy availability in India. [7 Marks;CO1;Understand]

(OR)

2. (A) Explain solar energy and how it is beneficial for environment [7 Marks;CO1;Understand]
- (B) Write about the summery of fossil fuels. [7 Marks;CO1;Understand]

UNIT-2

3. Describe energy flow in major man made systems, explain about decomposition rates [14 Marks;CO2; Understand]

(OR)

4. (A) Explain about industrial and urban ecosystem [7 Marks;CO2; Understand]
- (B) What are the external factors controlling the ecosystem [7 Marks;CO2; Remember]

UNIT-3

5. Explain about solar photovoltaic systems explain its basic principle of SPV conversion. [14 Marks;CO3; Understand]

(OR)

6. (A) Draw and explain wind speed- power curve [7 Marks;CO3; Understand]
- (B) Explain about carioles effect [7 Marks;CO3;Understand]

UNIT-4

7. (A) List the merits and demerits of biomass energy [7 Marks;CO4; Remember]
- (B) Give the status of ocean thermal energy plants in India [7 Marks;CO4;Understand]

(OR)

8. (A) Explain about different biomass resources [7 Marks;CO4; Understand]
- (B) Classify different biomass conversion technologies [7 Marks;CO4;Understand]

UNIT-5

9. (A) Explain the different site selection factors of geo thermal power plant [7 Marks;CO5; Understand]
- (B) With the help of diagram explain about closed cycle MHD generation system [7 Marks;CO5;Understand]

(OR)

10. (A) Classify the water turbines based on water action [7 Marks;CO5; Understand]
- (B) What is geo thermal energy and explain about conversion process [7 Marks;CO5; Understand]

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