Time: 3 hours

Maximum Marks: 70

CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)

Term-End Examination February, 2021

OEY-003 : ENERGY MANAGEMENT : AUDIT AND CONSERVATION

No	te: Attempt any seven questions. All questions coequal marks.	ırry
1.	Explain various temperature measuring instruments.	10
2.	What is evaporative cooling? Explain the reasons for lowering of temperature by evaporation.	10
3.	What is energy conservation? Why is it needed?	10
4.	What are the principal components of energy balance for the boiler ? Illustrate heat balance for	
	boiler while generating steam.	10

5+5=105. Distinguish between the following Commercial and Non-commercial energy (a) sources. (b) Medium term and Long term energy conservation measures. Explain the energy audit of Vanaspati Industry 6. in detail. 10 What is Life Cycle Cost? How is it calculated by 7. considering present worth and future worth? 10 What are the alternatives available for Chulha? 8. Explain their relative advantages and limitations. 10 9. short any four of the Write notes on $4 \times 2 \frac{1}{2} = 10$ following:

Loading of Motors

Air Conditioning Unit

Wind Energy System

Animal Power

(a)

(b)

(c)

(d)

(e)

PV - Biogas and Biogas Based Generation