CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)

Term-End Examination

December, 2021

OEY-003 : ENERGY MANAGEMENT : AUDIT AND CONSERVATION

Time : 3 hours

Maximum Marks: 70

Note: Attempt any *five* questions. Each question carries equal marks. Assume suitable data, if any missing.

1.	(a)	Describe the detailed energy audit with suitable example.	7
	(b)	Enlist various temperature measuring devices. Explain any one of them in detail.	7
2.	(a)	Explain the various steps followed for home energy audit.	7
	(b)	Classify the various energy conservation measures. Explain them briefly.	7
3.	(a)	Explain the importance of energy audit and conservation in rural energy planning.	7
	(b)	Identify the energy conservation measures that are important in a wire manufacturing	
		company.	7

4.	(a)	Discuss any two energy efficient devices in detail.	7
	(b)	Explain present worth and future worth factor and derive the equation for both.	7
5.	(a)	Discuss the purpose of awareness and training programes in Integrated Rural Energy Planning (IREP).	7
	(b)	Discuss the present and future energy scenario with IREP.	7
6.	-	in the various reasons for increased asis on energy conservation.	14
7.	follow	2	14
	(a)	Sankey Diagram	
	(b)	Energy Conservation in Agricultural Sector	

- (c) Animal Power
- (d) Desert Cooler
- (e) Power Factor Improvement
- (f) Energy Balance of Boiler