(a) Explain the features of energy audit instrument. Enlist the instruments used to measure electrical parameters.

- (b) Describe any *one* pressure or temperature measuring instrument with sketch. 7
- 3. (a) Identify the various areas where energy could be conserved in printing press. 7
 - (b) Discuss the principal components of energy balance in boiler.7
- 4. (a) Discus the methodology of rural energy planning. 7
 - (b) Explain the limitations of the survey data. 7
- 5. (a) An amount of ₹ 5,000 is invested in an energy conservation measure. If the same amount is invested in another option where interest rate is 10%, what will be amount available at the end of one year ? 7
 - (b) Explain the life cycle cost of optional mix renewable energy system.7

No. of Printed Pages : 3

OEY-003

CERTIFICATE IN ENERGY TECHNOLOGY AND MANAGEMENT (CETM)

Term-End Examination

June, 2021

OEY-003 : ENERGY MANAGEMENT : AUDIT AND CONSERVATION

Time : 3 Hours

Maximum Marks : 70

Note: (i) Attempt any five questions.

(ii) All questions carry equal marks.

(iii)Assume suitable data, if missing.

- 1. (a) Explain the principles of energy conservation. 7
 - (b) Discuss the importance of short-term and long-term energy audit with suitable example.7

- 6. Describe any *four* energy efficient devices used to conserve energy. 14
- 7. Write short notes on any *two* of the following :

 $7 \times 7 = 14$

- (a) Evaporative cooling
- (b) Energy conservation measures in Vanaspati industry
- (c) Life cycle cost analysis
- (d) Long-term energy conservation measures