Avinashilingam Institute for Home Science and Higher Education for Women

Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD (now MoE)
Re-accredited with 'A++' Grade by NAAC. CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment Test I – February 2025

Semester-II

Class : I PG **Time: 2hours**
Major : Interior Design and Resource Management **Max. Marks: 60**

23MIRC09 Renewable Energy Sources

Course Outcomes:

CO1: Appraise the significance and use of energy in different forms
CO2: Use various renewable energy devices and conserve fossil fuels
CO3: Live as good responsible citizens contributing to global energy conservation endeavors
CO4: Enjoy the benefits of using renewable energy sources
CO5: Formulate projects and approach funding agencies in future

Part A **6 x 1= 6**

Choose the correct answer

1. Energy stored in the object is named as (CO1K1)
a. Potential energy b. Kinetic energy c. Renewable energy d. Conventional energy
2. Identify the non-renewable source from the following? (CO1K2)
a) coal b) fuel cells c)wind power d)wave power
3. Uninterrupted availability of energy sources at an affordable price is called (CO3K2)
a. Energy security b. Energy demand c. Energy efficiency d. Energy economy
4. Expansion for MNRE is (CO2K2)
a. Ministry of renewable energy b. Ministry of non renewable energy
c. Ministry of new and renewable energy d .Ministry of non power renewable energy
5. Solar beam radiations are measured using the instrument (CO3K2)
a) anemometer b) pyranometer c) refractometer d) spectrometer
6. National Energy Conservation Day' was observed on (CO2K3)
a) 4th December b) 14th December c) 24th December d) 14th January

Part B **3 x 6 = 18**

Answer the following

Answer should not exceed 400 words or two pages

7. a. Explain any two classifications of energy sources with examples (CO1 K4)
(Or)
7. b. State the advantages of renewable energy. (CO2 K1)

8. a. What is meant by energy efficiency? How can you implement it? (CO2K3)
(Or)
8. b. Write the pros and cons of using non-renewable energy. (CO2K1)

9. a. Differentiate between concentrating type solar collector and flat plate type collector.(CO2K2)
(Or)
9. b. Write a note on energy scenario in India (CO2K2)

Part C

Answer the following **3x12=36**

Answer should not exceed 800 words or four pages

10. a. Summarize any four alternative sources of energy suitable for use in India (CO4K2)
(Or)
10 .b. Discuss the energy consumption pattern in India and its environmental impact (CO3K3)

11. a. Explain on fundamentals of photovoltaic conversion with illustration. (CO2K4)
(Or)
11. b. Describe the working principle of a box type solar cooker with a diagram. (CO2K3)

12. a .Write in detail on the suitability of using a solar dryer and solar water heater. (CO3K4)
(Or)
12. b. Explain the operation of solar distillator (CO2K2)

No.of Copies: 7 **Staff in charge - D.Sumathi**