

**Avinashilingam Institute for Home Science and Higher Education for Women
[Deemed to be University] Coimbatore – 641 043**

Bachelor's Degree Examination – November 2018

Semester V

Class : III UG

Time : 3 Hours

Major : Interior Design and Resource Management

Max. Marks : 100

15BIDC17 Alternate Sources of Energy

Part – A

10 x 1 = 10

Choose the Correct Answer

1. Law of conservation of energy states that energy can be converted in to a
 - a. farm
 - b. form
 - c. moon
 - d. swing
2. Energy provide
 - a. work
 - b. capacity
 - c. strength
 - d. power
3. Energy at work is called
 - a. thermal
 - b. potential
 - c. kinetic
 - d. elasticity
4. Energy which is used and transferred to consumer
 - a. geothermal
 - b. resources
 - c. primary resources
 - d. secondary resources
5. Renewable energy sources have
 - a. high carbon emissions
 - b. low carbon emissions
 - c. medium carbon emissions
 - d. heavy carbon
6. Best example for non – commercial energy
 - a. electricity
 - b. diesel
 - c. petrol
 - d. crop residue
7. Expansion of EIA
 - a. Energy Illumination assessment
 - b. Energy ignition assessment
 - c. Energy information administration
 - d. Energy institution administration
8. MNRE stands for
 - a. Ministry of Navy and Renewable energy
 - b. Ministry of energy ignition assessment
 - c. Ministry of new and renewable energy
 - d. Ministry of energy institution administration
9. Acid rain is caused by ideare of
 - a. SO₂ and NO₂
 - b. SO₂ and Na₂
 - c. SO₂ and NO₂
 - d. SU₂ and NO₂
10. Role of pyranometers is to
 - a. to measure the fiber optics
 - b. to measure the energy
 - c. to measure global radiation
 - d. to measure and control energy

Part – B

5 x 6 = 30

Answer the following

Answer should not exceed 400 words or two pages

- 11.a. Write an account on energy.
(Or)
- 11.b. What are the features of energy.
- 12.a. Write short notes on significance of conservation of energy.
(Or)
- 12.b. How wind energy is converted in to renewable useful energy?
- 13.a. Give the principles used in solar energy.
(Or)
- 13.b. Give the classifications of solar collectors and explain the purpose of collectors.
- 14.a. Write the classifications of bio gas plant.
(Or)
- 14.b. Explain the importance of bio gas plant.
- 15.a. Write in detail the origin of winds.
(Or)
- 15.b. Discuss the environmental benefit of using wind energy.

Part – C

5 x 12 = 60

Answer the following

Answer should not exceed 800 words or four pages

- 16.a. Classify energy based on commercial application and availability?
(Or)
- 16.b. Elaborately discuss the energy consumption in India?
- 17.a. Discuss the importance and features of implementing solar and biomass energy in house holds.
(Or)
- 17.b. Explain the various principles of energy conservation.
- 18.a. Draw and discuss the working principle of solar cooker and water heater.
(Or)
- 18.b. Enumerate the principles used in solar dryer with illustration.
- 19.a. Discuss on the suitable model biogas plant for a house hold located in a city.
(Or)
- 19.b. Draw and discuss the principles of biogas plant and its working procedure.
- 20.a. Explicate wind energy programmes in India.
(Or)
- 20.b. Discuss the various environmental aspects of wind energy.
