

**Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore – 641043**

Bachelor's Degree Examination – November 2017

V Semester

Class: III UG

Max.Marks: 100

Major: Interior Design and Resource Management

Time : 3 Hours

15BIDC17 Alternate Sources of energy

Part – A

10 x 1 = 10

Choose the Correct Answer

1. Fossil fuels are
 - a. Coal
 - b. Oil
 - c. Natural gas
 - d. All of the above

2. Dried twigs, leaves, cow dung are examples for
 - a. Bio-oil
 - b. Biomass
 - c. Bosal
 - d. All of the above

3. Energy that is non-exhaustible
 - a. Nuclear energy
 - b. Fossil fuel
 - c. Renewable energy
 - d. Non - renewable energy

4. Wind energy converts kinetic energy to
 - a. Chemical energy
 - b. Potential energy
 - c. Thermalenergy
 - d. Mechanical energy

5. Energy sources that are available in raw form are called
 - a. Primary sources
 - b. Intermediate sources
 - c. Secondarysources
 - d. Potential sources

6. Solar device that is used to purify water is called
 - a. Solar stills
 - b. Solar water heater
 - c. Solar cooker
 - d. Solar pump

7. The periodic rise and fall of water level of the sea due to the gravitational pull between moon and earth is called
 - a. Wave
 - b. OTEC
 - c. Tide
 - d. None of the above

8. Device used to trap wind power
 - a. Wind rose
 - b. Wind axis
 - c.
 - d. Wind mill

9. Biomass is a general term used for all material originating from
 - a. Photosynthesis
 - b. Air
 - c. Percolation
 - d. Synthesis

10. Photovoltaic cells are made up of ----- to generate electricity by absorption of light
 - a. Insulators
 - b. Conductors
 - c. Semi-conductors
 - d. None of the above

Part – B

5 X 6 =30

Answer the Following

Answer should not exceed 400 words or two pages

11(a). Discuss conventional and non-conventional energy sources.

(Or)

11(b). Discuss renewable and non-renewable energy sources.

12(a). Explain need for energy conservation.

(Or)

12(b). Write the principles of energy conservation.

13(a). Discuss tidal energy.

(Or)

13(b). Discuss wave energy.

14(a). Write a note on solar cookers.

(Or)

14(b). Write a note on solar water heaters.

15(a). Discuss the importance of biogas.

(Or)

15(b). Discuss the sources of materials used for biogas generation.

Part – C

5 X 12= 60

Answer the Following

Answer should not exceed 800 words or four pages

16(a). Classify energy sources with examples.

(Or)

16(b). Enumerate the impact of fossil fuels on environment.

17(a). Discuss the types of biogas plant with illustrations.

(Or)

17(b). Discuss the principles and use of biogas.

18(a). Elaborate on the trends in energy consumption in India.

(Or)

18(b). Explain solar dryers and photovoltaic cells.

19(a). Discuss solar energy as an alternate source of energy.

(Or)

19(b). Discuss biomass as an alternate source of energy.

20(a). Elaborate on major applications of wind power.

(Or)

20(b). Elaborate on the wind energy Programmes in India.
