Assignment 12
Due as 2020-06-22, 25:59:57 IST.

More than one answer may be right. Partial marks are awarded if only some of the correct answers are selected. No marks awarded if one of the following answers is incorrect.

1. Rectangle and square are different in performance characteristics.
   - True
   - False
   - No, the answer is incorrect.
   - 1 point

2. Statement: The use of regenerative braking in electric vehicles is based on:
   - True
   - False
   - No, the answer is incorrect.
   - 1 point

3. Statement: In an electric car,
   - Brake pads are replaced after each trip by the vehicle manufacturer.
   - Braking energy is recovered through a system known as regenerative braking.
   - The brakes are not used to slow down the car.
   - 1 point

4. photovoltaic panels are used to:
   - Convert light into electrical energy.
   - Generate heat.
   - Store electrical energy.
   - 1 point

5. Fuel cells can generate power using:
   - Water and oxygen.
   - Coal and water.
   - Sunlight and water.
   - 1 point

6. List the type of energy that is generated in a fuel cell.
   - Electric power
   - Thermal energy
   - Mechanical energy
   - 1 point

7. Fuel cells are used to:
   - Generate electrical power from chemical reactions.
   - Generate mechanical energy from chemical reactions.
   - Generate thermal energy from chemical reactions.
   - 1 point

8. List the type of energy that is generated in a wind turbine.
   - Electric power
   - Mechanical energy
   - Thermal energy
   - 1 point

9. List the type of energy that is generated in a solar panel.
   - Electric power
   - Mechanical energy
   - Thermal energy
   - 1 point

10. List the type of energy that is generated in a geothermal power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

11. List the type of energy that is generated in a hydroelectric power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

12. List the type of energy that is generated in a nuclear power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

13. List the type of energy that is generated in a coal-fired power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

14. List the type of energy that is generated in a gas turbine power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

15. List the type of energy that is generated in a gas-fired power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

16. List the type of energy that is generated in a biomass power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

17. List the type of energy that is generated in a wind power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

18. List the type of energy that is generated in a solar power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

19. List the type of energy that is generated in a geothermal power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

20. List the type of energy that is generated in a nuclear power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

21. List the type of energy that is generated in a coal-fired power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

22. List the type of energy that is generated in a gas-fired power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

23. List the type of energy that is generated in a gas turbine power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

24. List the type of energy that is generated in a biomass power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

25. List the type of energy that is generated in a wind power plant.
    - Electric power
    - Mechanical energy
    - Thermal energy
    - 1 point

List - A

- (A) 1.23 V
- (B) Atomic number 19
- (C) 60,000 rpm

List - B

- (i) CFRP Flywheel
- (ii) Water
- (iii) Seeding material

- Yes, the answer is incorrect.
- 1 point

- Yes, the answer is incorrect.
- 1 point

- Yes, the answer is incorrect.
- 1 point