

BITT POLYTECHNIC, RANCHI

DEPARTMENT OF ELECTRICAL ENGG.

Power System- I

SEM-4TH (EE)

Objective type question.

1-Which of the following is (are) released on fossil fuels?

- (A) Nitrogen
- (B) Carbon dioxide
- (C) Water vapor
- (D) All of the above

2-Dynamo converts the

- (A) Mechanical energy into electrical energy
- (B) Chemical energy into electrical energy
- (C) Heat energy into electrical energy
- (D) None of the above

3-Which is the major constituent of Bio-gas?

- (A) Carbon dioxide
- (B) Methane
- (C) Hydrogen
- (D) Hydrogen sulphide

4-Which country is called the country of 'winds'?

- (A) Sweden
- (B) Norway
- (C) Denmark
- (D) France

5-Following is (are) the use(s) of Wind energy

- (A) In water lifting pump
- (B) To generate electricity
- (C) both (A) and (B)
- (D) None of the above

6-In wind mill, the wind speed should be higher than ____ to maintain the required speed of the turbine.

- (A) 5 km/hr
- (B) 8 km/hr
- (C) 12 km/hr
- (D) 15 km/hr

7-Following material is used to make solar cell

- (A) Germanium
- (B) Silicon
- (C) Indium
- (D) All of the above

8-Following is responsible for tidal energy

- (A) difference in sea level
- (B) winds blowing from sea
- (C) temperature difference of sea and land
- (D) none of the above

09-Hydrogen bomb is based on

- (A) Nuclear Fission reaction
- (B) Nuclear Fusion reaction
- (C) both (A) and (B)
- (D) None of the above

10-Which of the following energy source creates more pollution

- (A) CNG
- (B) Fossil fuel
- (C) Solar cells
- (D) Geothermal energy

Short Type Question and Answer.

1. Why is electrical energy preferred over other forms of energy?
2. What is steam power station?
3. Discuss the advantages and disadvantages of steam power station.
4. Write the name of all thermal power plants in Jharkhand with their capacity.
5. What is boiler? Write types of boiler.
6. What is condenser?
7. What is superheater? Write the function of superheater.
8. What is steam turbine? Write types of turbine.
9. Write a short note on the generation of electrical energy.
10. What is a power generating station?

Long type Question and Answer

11. Discuss the different sources of energy available in nature.
12. What factors are taken into account while selecting the site for a steam power station?
13. Explain the important component of steam power station.
14. Discuss the factors for the choice of site for a nuclear power plant.
15. Draw the schematic diagram of a modern steam power station and explain its operation

Answers of Objective Questions

1-(D), 2-(A), 3-(B), 4-(C), 5-(C), 6-(D), 7-(B), 8-(A), 9-(B), 10-(B).