

Electrical Power Sources Questions and Answers Pdf

1. The commercial sources of energy are
 - a. Fossile fuels, water and radioactive substances
 - b. Solar, wind, biomass
 - c. Wood, animal wastes and agricultural wastes
 - d. None of the above

Ans: A

2. Water hammer occurs in
 - a. Surge tank
 - b. Penstock
 - c. Turbine casing
 - d. Draft tube

Ans: B

3. For high head and low discharge the water turbine used is
 - a. Pelton wheel
 - b. Kaplan turbine
 - c. Francis turbine
 - d. Propeller turbine

An: A

4. What is the approximate efficiency of a normal thermal power station?
 - a. 30-40%
 - b. 45-55%
 - c. 20-25%
 - d. 60-70%

Ans: A

5. On which one of the following cycles does a modern steam power plant work?
 - a. Carnot cycle
 - b. Rankine cycle
 - c. Otto cycle

d. Bell-Coleman cycle

Ans: B

6. The advantage of hydroelectric power station over thermal power station is

- a. the initial cost of hydroelectric power station is low
- b. the operating cost of hydroelectric power station is low
- c. hydroelectric power station can supply the power throughout the year
- d. hydroelectric power station can be constructed at the place where the energy is required

Ans: B

7. Operating cost of steam power station is

- a. Less than that of nuclear power plants
- b. Less than that of diesel/gas turbine power plants
- c. Less than that of hydroelectric power plants
- d. Is the same as that of nuclear power plant

Ans: B

8. The efficiency of a boiler used in modern steam power plant is of the order of

- a. 30%
- b. 50%
- c. 85%
- d. 100%

As: C

9. A condenser in a steam power plant condenses steam coming out of

- a. Turbine
- b. Boiler
- c. Economiser
- d. Superheater

Ans: A

10. The coal of the lowest calorific value is

- a. Anthracite

- b. Bituminous coal
- c. Lignite
- d. Steam coal

Ans: C

meritnotes.com