

Steam and Power Generation Objective Questions and Answers Pdf

1. Forced draught fans of a large steam generator have

- a. backward curved blades
- b. forward curved blades
- c. straight or radial blades
- d. double curved blades

Ans: A

2. Induced draught fans of a large steam generator have

- a. backward curved blades
- b. forward curved blades
- c. straight or radial blades
- d. double curved blades

Ans: A

3. Ratio of actual indicated work to hypothetical indicated work in a steam engine is the

- a. indicated thermal efficiency
- b. friction factor
- c. mechanical efficiency
- d. diagram factor

Ans: D

4. Fans used for mechanical draft (induced) cooling towers are

- a. axial flow type
- b. radial flow type
- c. centrifugal type
- d. propeller type

Ans: D

5. In a Rankine cycle, regeneration results in higher efficiency because

- a. Pressure inside the boiler increases

- b. heat is added before steam enters the low pressure turbine
- c. average temperature of heat addition in the boiler increases
- d. total work delivered by the turbine increases

Ans: C

6. During which of the following process does not heat rejection take place in Carnot vapour cycle?

- a. Constant volume
- b. Constant pressure
- c. Constant temperature
- d. constant entropy

Ans: C

7. Employing superheated steam in turbines leads to

- a. increase in erosion of blading
- b. decrease in erosion of blading
- c. no erosion in blading
- d., no change in erosion of blading

Ans: B

8. Heat is mainly transferred by conduction, convection and radiation in

- a. insulated pipes carrying hot water
- b. refrigerator freezer coil
- c. boiler furnaces
- d. condensation of steam in a condenser

Ans: C

9. Which one of the following is the fire tube boiler?

- a. Babcock and Wilcox boiler
- b. Locomotive boiler
- c. Strling boiler
- d. Benson boiler

Ans B

10. Rateau turbine belongs to the category of

- a. pressure compounded turbine
- b. reaction turbine
- c. velocity compounded turbine
- d. radial flow turbine

Ans: A

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