

Steam and Power Generation Quiz Questions and Answers Pdf

1. The compounding of steam turbines is done to

- a. improve efficiency
- b. reduce turbine speed
- c. increase blade speed ratio
- d. reduce axial thrust

Ans: B

2. In an axial flow impulse turbine, energy takes place due to

- a. change in relative kinetic energy
- b. change in absolute kinetic energy
- c. change in pressure energy
- d. change in energy because of centrifugal force

Ans: B

3. Why is compounding of steam turbines done?

- A. to improve efficiency
- B, to reduce the speed of rotor
- c. to reduce exit losses
- d. to increase the turbine output

Ans: B

4. In Parson's reaction turbines, the velocity of diagram triangles at the inlet and outlet are which of the following?

- a. asymmetrical
- b. isosceles
- c, right angled
- d. congruent

Ans: D

5. Bomb calorimeter is used to determine the calorific value of

- a. Solid fuel only

- b.. gaseous fuels only
- c. Solid as well as gaseous fuels
- d. solid as well as liquid fuels

Ans: D

6. Which one of the following gaseous fuels does not have different higher and lower calorific values?

- a. methane
- b, ethane
- c, carbon monoxide
- d. hydrogen

Ans : C

7. The combustion analysis carried out by the Orsat Apparatus renders which one of the following?

- a. the percentage composition by weight on the dry basis
- b. the percentage composition by volume on the dry basis
- c. the percentage composition by weight on the wet basis
- d. the percentage composition by volume on the wet basis

Ans: B

8. Coal fired power plant boilers manufactured in India generally use

- a. Pulverised fuel combustion
- b. Fluidised bed combustion
- c. circulating fluidized bed combustion
- d, moving stoker firing system

Ans: A

9. The excess air required for combustion of pulverised coal is of the order of

- a. 100 to 150%
- b. 30 to 60%
- c. 15 to 40%
- d, 5 to 10%

Ans: D

10. In Orsat apparatus

- a. carbon dioxide is absorbed in cuprous chloride
- b. carbon monoxide is absorbed in caustic potash solution
- c. oxygen is absorbed in pyrogalic acid
- d. nitrogen is absorbed in hot nickel chrome compound

Ans C

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