

Steam and Power Generation MCQ Questions and Answers Pdf

1. In a regenerative feed heating cycle, the economic number of the stages of regeneration

- A. increases as the initial pressure and temperature increase
- b. decreases as the initial pressure and temperature increase
- c. is independent as the initial pressure and temperature
- d. depends only on the condenser pressure

Ans: A

2. For a given set of operating pressure limits of a Rankine cycle, the highest, efficiency occurs for

- a. saturated cycle
- b. superheated cycle
- c. reheat cycle
- d. regenerative cycle

Ans: D

3. In steam and other vapour cycles, the process of removing non-condensable is called

- a. Scavenging process
- b. Deaeration process
- c. exhaust process
- d. Condensation process

Ans: B

4. Blade erosion in steam turbines takes place

- a. due to high temperature steam
- b, due to droplets in steam
- c. due to high rotational speed
- d. due to high flow rate

Ans: B

5. In the bottoming cycle of cogeneration, low grade waste heat is used for

- a. Processing

- b. Power generation
- c. Feed water heating
- d. none of the above

Ans: B

6. A power plant, which uses a gas turbine followed by steam turbine for power generation is called

- a. Topping cycle
- b. Bottoming cycle
- c. Brayton cycle
- d. Combined cycle

Ans: D

7. A regenerative steam cycle renders

- a. increased work output per unit mass of steam
- b. decreased work output per unit mass of steam
- c. increased thermal efficiency
- d. decreased work output per unit mass of steam as well as increased thermal efficiency

Ans: D

8. In thermal power plants, the deaerator is used mainly to

- a. remove air from condenser
- b. increase feed water temperature
- c. reduce steam pressure
- d. remove dissolved gases from feed water

Ans: D

9. Which among the following is the boiler mounting?

- a. Blow off cock
- b. Feed pump
- c. Economiser
- d. Superheater

Ans: A

10. The density in locomotive boilers is produced by

- a. Chimney
- b. Centrifugal fan
- c. Steam jet
- d. Locomotion

Ans: C

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