

### **Mechanical Engineering Turbomachines Quiz Questions with Answers Pdf**

1. A nozzle used to
- a. increase velocity and decrease pressure
  - b. increase velocity as well as pressure
  - c. decrease velocity as well as pressure
  - d. decrease velocity and increase pressure

Ans: A

2. For efficient operation of axial flow compressors and blades are made
- a. straight
  - b. slightly curved
  - c. aerofoil section
  - d. forward curved

Ans: C

3. In air compressor performance curve, a surge line represents
- a. limit of compressor discharge
  - b. limit of compressor efficiency
  - c. limit of stable operation
  - d. lower critical speed of shaft

Ans: C

4. For a jet propulsion unit, ideally the compressor work and turbine work are
- a. unequal
  - b. equal
  - c. not related to each other
  - d. none of the above

Ans: B

5. Which of the following is the smallest and lightest for generating a given amount of power
- a. steam power plant
  - b. petrol engine

c. diesel engine

d. solar plant

Ans: D

6. Thermal efficiency of closed cycle gas turbine plant increases by

a. reheating

b. intercooling

c. regenerator

d. all of the above

Ans: D

7. The flow of two sides of a normal shock wave is

a. subsonic

b. sonic

c. supersonic

d. supersonic on one side and subsonic on the other side

Ans: D

8. In a hot wire anemometer, the rate of heat loss from sensing element is a function of

a. pressure

b. mass rate of flow

c. velocity of flow

d. none of the above

Ans: c

9. In a gas turbine cycle, regenerator is used to

a. heat the gases coming out of combustion chamber

b., heat fuel supplied to combustion chamber

c. heat air supplied to combustion chamber

d. heat exhaust gases released from low pressure turbine

Ans: C

10. Gas turbine used in aircraft is of

- a. open cycle type
- b. closed cycle type with reheating
- c. closed cycle type with reheating and regeneration and intercooling
- d. open cycle type with reheating, regeneration and intercooling

Ans: A

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