

Mechanical Engineering Turbomachines Objective Type Questions with Answers Pdf

1. The normal shock wave in compressible flow is analogous to

- a. surges in open channel
- b. vortex formation in centrifugal pump
- c. hydraulic bore in tidal rivers
- d. hydraulic jump in channel flow

Ans: D

2. Curtis turbine is

- a. an impulse turbine
- b. a velocity compounded turbine
- c. a pressure compounded turbine
- d. a velocity pressure compounded turbine

Ans: D

3. The source of power for driving a turbocharger is

- a. kinetic energy of exhaust gases from the engine
- b. chemical energy of exhaust gases
- c. air motor
- d. electric motor

Ans: A

4. Which type of rotary compressor is used in oil fired furnaces?

- a. sliding vane type compressor
- b. screw compressor
- c. axial flow compressor
- d. centrifugal blower

Ans: D

5. Surging is

- a. an unsteady, periodic and reversal of flow in the compressor
- b. the fixed mass flow rate regardless of pressure ratio

- c. the reduction in lift force at higher angles of incidence
- d. none of the above

Ans: A

6. Which gas turbine has least weight per unit power developed?

- a. simple open cycle gas turbine
- b. open cycle gas turbine with intercooling and reheating
- c. open cycle gas turbine with intercooling, reheating and regeneration
- d. closed cycle gas turbine

Ans: A

7. Bleeding in steam turbine refers to

- a. leakage of steam through bearings
- b. leakage of steam through packings
- c. purposely withdrawn steam for process application
- d. purposely withdrawn for feed water heating

Ans: D

8. Which of the following loss in steam turbines is negligible?

- a. residual velocity loss
- b. leakage loss
- c. mechanical friction loss
- d. radiation loss

Ans: D

9. For gas turbine, compressors used are

- a. reciprocating type
- b. centrifugal type
- c. axial flow type
- d. sliding vane type

Ans: C

10. Efficiency of gas turbine is increased by

- a. reheating
- b. intercooling
- c. adding a regenerator
- d. all of the above

Ans: D

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