

Heat Engines MCQ Questions and Answers Pdf

1. Thermodynamic equilibrium is completely defined by the specification of the

- a. internal energy
- b. enthalpy
- c. generalized displacements
- d. all of the above together

Ans: D

2. Which is the external loss in a steam turbine?

- a. nozzle losses
- b. blade friction losses
- c. disc friction losses
- d. back pressure losses

Ans: D

3. Generally steam turbines in power station operate at

- a. 3000 rpm
- b. 1500 rpm
- c. 1000 rpm
- d. 375 rpm

Ans: A

4. The function of a condenser in a steam power plant is

- a. to reduce back pressure
- b. to utilize heat of exhaust steam
- c. to preheat feed water exhaust steam
- d. to act as a heat sink

Ans: A

5. Presence of impurities in ice

- a. raise melting point
- b. lowers melting point
- c. does not have any effect
- d. makes it heavier than water

Ans: B

6. The lowest temperature upto which a mercury thermometer can be used is

- a. 0°C
- b. -10°C
- c. -39°C
- d. -273°C

Ans: C

7. A compound pressure gauge measures

- a. compound pressure
- b. complex pressure
- c. variable pressure
- d. positive and negative pressure

Ans: D

8. Thermie

- a. is a unit of temperature measurement
- b. is a unit of latent heat measurement
- c. is thermal conductivity of materials

d. is quantity of heat required to raise temperature of one tonne of water from 14.5°C to 15.5°C

Ans: D

9. In a condensing steam engine

- a. condensed steam is supplied
- b. steam condenses inside cylinder
- c. steam condenses as soon as it leaves the cylinder
- d. exhaust steam is condensed in condenser

Ans: D

10. Intercooling in multistage compressors is done

- a. to cool the air at delivery
- b. to enable use of small cylinders and eliminate problems of unbalanced forces
- c. to minimize the work of compression
- d. to supply air at two different pressure for use

Ans: C

meritnotes.com