

- 1. The pressure p in terms of its mean kinetic energy/unit volume E is
- a .E/3 b.E/2 c.3E/4 d.2E/3 e.5E/4
- 2. Convert volumetric to gravitational, relative volume of each constituent of flue gas
- a. %mw b. xmv c. me d. xsw e. %sw
- 3. Which is correct for reversible polytrophic process?
- a. temperature constant b. density constant c. volume constant
- d. entropy constant e. same heat transfer
- 4. if a gas or vapour allowed to expand through a minute hole
- a. free expansion b. hyperbolic c. adiabatic expansion
- d. parabolic e. throttling
- 5. Minimum work of compressor is possible, when the adiabatic index is
- a.0.75 b.1 c.1.27 d.1.35 e.2
- 6. Under ideal condition, isothermal, isochoric, adiabatic and isobaric are
- a. static b. dynamic c. quan-static d. stable e. thermodynamic
- 7. If a heat engine attains 100% efficiency, then it is
- a. zeroth law b. I law c. II law d. no e. all
- 8. If Q1 is the heat in source, Q2 is the cold sink for heat pump then COP



- a. Q1 / (Q1- Q2) b. Q2 / (Q1- Q2) c. (Q1- Q2) / Q1
- 9. The output of diesel engine is increased if
- a. more fuel b. flywheel size c. incoming air
- d. scavenging e. supercharging
- 10. Accumulation of carbon in the cylinder increases when
- a. decrease in volume b. volumetric efficiency c. ignition time
- d. effective compression ratio e. travel time
- 11. The most popular firing sequence
- a.1234 b.1324 c.1423 d.1243 e.1342
- 12. for same power, same speed, flywheel of petrol and diesel engine are
- a. smaller b. greater c. equal d. none
- 13. If petrol is used in diesel engine, then
- a. higher knocking b. black smoke c. lot of fuel d. improper combustion
- 14. Ans .d) mechanical efficiency
- 15. Reciprocating compressor is used for
- a. large quantity of air at high pressure b. large quantity of air at low pressure
- c. low quantity of air at low pressure d . low quantity of air at high pressure



- 16. Thermal diffusity
- a. Dimensionless d. used in radiation process
- 17. Critical pressure
- 18. Cryogenics Ans Option with engineering
- 19. Lean relation for
- a. specific gravity b. dynamic viscosity
- 20. Centre of pressure = centre of gravity when
- 21. Flow of particles in definite path without change in the path of the particle
- a. one dimensional b. c. turbulent d. steady state
- 22. Pressure coefficient is given by
- 23. Vortex on whirlpool is due to
- a. cavitation b. wake c. drag
- 24. Rotometer is used
- 25. Axial flow pump is used



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- 27. Fan laws
- 28. Rupture (what it is)
- 29. A belt drive, where pulley dia is double, and then it key length must be
- a. doubled b. same c. increase the critical length d.
- 30. Surface contact in motion is called
- a. roll pair b. surface pair c. lower pair d. slide
- 31. For fluctuating load----- is used
- a. ball bearing b. roll bearing c. thrust bearing d. sleeve bearing
- 32. Transmit power
- 33. D1 and D2 are pulley dia, and then the speed is given by
- 34. To keep the noise to minimum
- 35. In pinion and gear design, the design must be made by
- a. gear b. pinion c. both



- 36. The plate is severely deformed at a side then it grains becomes
- a. ductile b. malleable c.
- 37. What is recrystallation temperature?
- 38. What is austempering?
- 39. Acetylene is staid on ----- form
- a. liquid b. solid c. compressed
- 40, tool life is concentrated on
- a. cutting speed b. material c. feed or depth
- 41. Reamer is used for
- a. b. to correct the size and finish
- 42. Statistical quality control charts uses
- a. statistics b. probability c. all the above.