

Atlas Copco Placement Paper Questions

Q1. Which of the following is not present in a CI engine?

- a) Fuel injector
- b) Carburetor
- c) Fuel pump

ANS: b

Q2. Overall heat transfer co-efficient present in

- a) Conduction
- b) Convection
- c) Conduction and convection
- d) All modes of heat transfer.

Q3. If a block of ice floating in a tub of water and gets melted then what will be the level of water?

- a) falls down
- b) rises
- c) remains the same

Q4. Compressed air coming out of a punctured football

- a) Remains at the same temperature
- b) Becomes hotter
- c) Becomes cooler

Q5. Heat transfer takes place as per

- a) Second law
- b) First law
- c) Zeroth law

- Q6. Formation of frost in refrigerator
- a) Can be prevented if design is proper
 - b) Heat transfer becomes more
 - c) Heat loss
 - d) Immaterial

ANS: d

- Q7. How will you find the unburnt mixture in exhaust gas?
- a) Analyzing CO
 - b) Analyzing Oxygen

- Q8. To reduce moisture troubles the compressor main should be
- a) Vertical
 - b) Horizontal
 - c) Slanting

- Q9. Compression ratio is the ratio of
- a) Delivery pointer to inlet pointer
 - b) Inlet pointer to delivery pointer
 - c) Stroke volume to clearance volume

- Q10. Critical activity is
- a) Zero float
 - b) High float
 - c) Low float

- Q11. Which process is more effective for compression?
- a) Isothermal

- b) adiabatic
- c) polytrophic

ANS: a

Q12. Cash discounts is based on

- a) Sold on credit
- b) Bargaining capacity of the seller
- c) Payment of instant cash

Q13. In which device, the temperature of the refrigerant is the lowest?

- a) Compressor
- b) Condenser
- c) Expansion valve
- d) Evaporator

Q14. What is the use of the reverse flow of air in compressor?

- a) Cleaning the dust particles settled
- b) Velocity of the air flow increases
- c) pressure increases

Q15. The intake of air in an air compressor can be had from

- a) An area nearby coal yard
- b) An area nearby a cooling tower
- c) A room in which conditioned air is maintained at 20C
- d) At air maintained at 1 C

Q16. Which of the following is not present in a SI engine?

- a) Spark plug
- b) Carburetor
- c) Fuel injector

ANS: c

Q17. To avoid cavitation in a centrifugal pump

- a) Inlet pressure should be high
- b) Discharge pressure should be high

ANS: a

Q18. Hygrometry deals with ---?

ANS: moisture content in air

Q19. 1 kg-m = ----- J?

ANS: 9.81 J

Q20. Expand MIS.

ANS: Management Information System

Q21. Expand NTP.

ANS: Normal Temperature and Pressure.

Q22. CPM and PERT deals with -----?

ANS: Determining the status of the project

Q23. State Dalton's law of pressure.

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ANS: Total pressure equals sum of partial pressures

Q24. What is the use of intercooler?

ANS: to reduce work input

Q25. Explain Avogadro's hypothesis.

ANS: Molecular weight of all gases occupy the same volume under same conditions of temperature and pressure.

Q26. What is the use of "after cooler"?

ANS: to reduce volume of receiver

Q27. Water hammer occurs due to ----?

ANS: sudden obstruction in flow

Q28. What will be the efficiency of diesel engine as compared to petrol engine under same rated load?

ANS: high

Q29. Second law of thermodynamics deals with ----.

ANS: entropy

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Q30. If Output = 9 kW, Input = 30 kW, Efficiency = ?

ANS: 30%

Q31. What is Break even point?

ANS: no profit and no loss

Q32. Choking in compressor means what?

ANS: fixed mass flow rate independent of the pressure ratio

Q33. Supercharging is the process of --- ?

ANS: increasing the density of the inlet charge

Q34. 1 kW-hr = ---- kJ?

ANS: 3600 kJ.

Q35. What happens if the refrigerator doors are kept open?

ANS: The room will be warmed up gradually.

Q36. In break even analysis, when does profit occurs?

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ANS: sales revenue > total cost.

Q37. A body of sp.gr 7 is immersed in mercury of sp.gr 13.6. What percent of the body will be immersed in water?

ANS: 0.515

Q38. 1 tone of refrigeration is ---.

ANS: cooling effect produced when melting one tone of ice.

Q39. Why is the use of Rota meter?

ANS: Flow measurement

Q40. If we use petrol in diesel engine, what will happen?

ANS: lot of fuel will remain unburnt.

Q41. What is the unit of power?

ANS: Watt

Q42. An adiabatic compression is one in which -----.

ANS: no heat enters or leaves the system.

Q43. Pour point is

ANS: minimum temperature at which a liquid flows at set condition.

Q44. Main objective behind plant layout is ---.

- a) To avoid back tracking.
- b) To minimize the space occupied.

Q45. What is meant by Orifice?

ANS: Provision for flow of liquid with regulation.