

Domestic & Commercial Refrigeration & AC Mechanic

1. Dew point temperature indicates
(a) Dryness of air *(b) Moisture content of air (c) Condition of air (d) All of these
2. Refrigerant used in domestic refrigerator is
(a) Ammonia (b) carbon-dioxide (c) Sulphurdioxide *(d) Freon-12
3. Highly toxic Refrigerant is
(a) Ammonia (b) carbon-dioxide (c) Sulphurdioxide *(d) Freon-12
4. Refrigerant used in air craft is
(a) Ammonia (b) carbon-dioxide *(c) Air (d) Freon-12
5. The cheapest refrigerant is
(a) Ammonia (b) carbon-dioxide *(c) Air (d) Freon-12
6. Refrigerant number R-717 means
*(a) Ammonia (b) CO₂ (c) SO₂ (d) Methyl- Chloride
7. Psychrometric process is
(a) Sensible heating (b) Humidification (c) Dehumidification *(d) All of these
8. Temperature of air recorded by ordinary thermometer is known as
*(a) wet bulb temperature (b) Dry bulb temperature
(c) Dew point temperature (d) Saturation temperature
9. Capacity of refrigerator is expressed in
*(a) Tonne (b) Kilowatt (c) Kilogram (d) None of these
10. As air cools, its relative humidity
(a) increases *(b) Decreases (c) remains same (d) None of these
11. Humidity ratio is also known as
(a) Relative humidity (b) Absolute humidity
(c) humidity ratio *(d) Percentage humidity
12. Air conditioning includes
(a) Cooling (b) Heating (c) dehumidifying *(d) removal of air impurities
13. In a Electrolux refrigerator, there is no
(a) electricity required (b) Noise (c) Moving machinery *(d) All of these
14. Defrosting of evaporator is done because frosting
(a) Increases refrigerating effect *(b) Decreases heat flow
(c) Obstruct flow of refrigerant (d) none of these

15. The domestic refrigerator has C.O.P.

- * (a) More than One (b) Less than one (c) Equal to one (d) None of these

16. In a refrigeration system subcooling

- *(a) Increases C.O.P. (b) Decreases C.O.P.
 (c) C.O.P. remains same (d) None of these

17. C.O.P. indry compression as compared to wet compression

- (a) Higher *(b) Lower (c) Same (d) None of these

18.Subcooling is

- (a) Differential cooling of liquid *(b) Cooling a part of liquid
(c) Removing latent heat from gas (d) All of the above

19. Moisture in refrigeration system is removed by

- (a) Evaporator * (b) condenser (c) compressor (d) Expansion valve

20. Ammonia is non-corrosive to

- * (a) iron and steel (b) Copper and copper alloys
(c) Both (a) and (b) (d) none of these

21. Leakage in a refrigeration system using Freon as refrigerant is detected by

- * (a) Halide torch (b) Sulphur torch (c) Soap and water (d) Acetylene test

22. maximum latent heat of vaporization is of

- * (a) Ammonia (b) carbon-dioxide (c) Freon-12 (d) Freon-22

23.Boiling point of ammonia is

- (a) -10.5°C (b) -33.3°C * (c) -77.7°C (d) -78.3°C

24.If ammonia is used as refrigerant the pipe line should be of

- a) Brass (b) Cast steel *(c) Copper (d) None of these

25. Freezing point of ammonia is

- (a) -10.5°C * (b) -33.3°C (c) -77.7°C (d) -78.3°C

26. water is used as refrigerant in

- (a) Vapour absorption cycle
(c) steam jet refrigeration
- *(b) Vapour refrigeration cycle
(d) None of these

27. Chemical formula for Freon-12

- * (a) CHClF_2 (b) CCl_2F_2 (c) CClF_3 (d) CH_3Cl

28. The refrigerant used in vapour absorption refrigerator is

- (a) Freon -12 (b) Ammonia (c) CO₂ *(d) Aqua-ammonia

29. Freezing point of CO_2 is

- * (a) -75.2°C (b) 77.7°C (c) -78.3°C (d) -110°C

30. In SI unit, one tone of refrigeration is equal to
*(a) 210 KJ/min (b) 50 KJ/min (c) 110 KJ/min (d) None of these
31. Boiling point of Freon-12
(a) -10.5°C (b) -29.8°C (c) -40.8°C *(d) -135.8°C
32. The capacity of domestic refrigerator is in the range of
(a) 0.1 to 0.3 tonnes *(b) 1 to 3 tonnes (c) 3 to 5 tonnes (d) none
33. C.O.P. is always
*(a) More than unity (b) less than unity (c) Equal to unity (d) None of these
34. A refrigerant should have the freezing point temperature
(a) Above -35°C *(b) Below -35°C (c) At 35°C (d) None of these
35. Freezing point of SO_2 is
(a) -10.5°C (b) -75.2°C *(c) -77.7°C (d) -78.3°C
36. Refrigerant number R-744 means
(a) Ammonia (b) CO_2 *(c) SO_2 (d) Methyl- Chloride
37. Refrigerant having lowest critical pressure is
*(a) Ammonia (b) Freon-12 (c) SO_2 (d) CO_2
38. A Refrigerant should have low
(a) Boiling point (b) Specific heat (c) Specific volume *(d) All of these
39. Carbon-dioxide is
(a) Colourless and odourless (b) Non-flammable
(c) Non-toxic *(d) All of these
40. Dichloromono-fluoroethane is
*(a) Freon-11 (b) Freon-12 (c) Freon-21 (d) Freon-22
41. Process of removing water vapour from air is known as
(a) Sensible cooling (b) Sensible heating (c) Humidification *(d) Dehumidification
42. Moisture content of air is indicated by
*(a) Wet bulb temperature (b) Dry bulb temperature
(c) Dew point temperature (d) saturation temperature
43. Cooling tower is used to cool water to be used for
*(a) Cooling the compressor (b) humidification
(c) Cooling the evaporator (d) Filtration of air
44. The ratio of sensible heat to total heat is known as
(a) Specific humidity (b) Relative humidity

*(d) Sensible heat factor

45. The bunch of tubes at the back of domestic refrigerator are

- * (a) Condensers tubes (b) Evaporator tubes
(c) refrigerant cooling tubes (d) Capillary tubes

46. Freezing point of Freon-12 is

- (a) -10.5°C (b) -29.8°C *(c) -40.8°C (d) -135.8°C

47. Freon-12 is

- (a) colourless and odourless (b) Non-toxic (c) Non-flammable *(d) All of these

48. Refrigerant number R-40 means

- (a) Ammonia (b) CO₂ (c) SO₂ *(d) Methyl- Chloride

49. Air refrigerator works on

- (a) Bell-Coleman cycle *(b) Reversed carnot cycle
(c) Carnot cycle (d) None of these

50. Boiling point of CO_2 is

- (a) -10.5°C (b) -77.7°C (c) -75.2°C *(d) -78.3°C

51. In refrigeration cycle, flow of refrigerant is controlled by

- (a) Evaporator (b) condenser (c) Compressor *(d) Expansion valve

52. In a refrigeration system type of compressor is used is

- (a) centrifugal (b) reciprocating (c) rotary sliding valve *(d) All of these

53. Refrigerant number R-764 means

- (a) Ammonia (b) SO_2 (c) CO_2 *(d) Methyl-chloride

54. In a refrigeration system moisture is removed by

- * (a) Driers (b) Desiccants (c) Filter Driers (d) All of these

55.Subcooling in a refrigeration cycle

- (a) Increases COP
 (b) Reduce cooling
 (c) Increases work of compression
 (d) Reduce condenser size

56. Pipe metal is not used with ammonia is

- (a) stainless steel *(b) copper (c) Wrought iron (d) All of these

57.Brine is used as secondary refrigerant in

- (a) Cold storage plants (b) Milk chilling plants
(c) Cinema-hall air conditioning plants * (d) Ice plant

58. The comfort condition in air conditioning are at

- (a) 15°C and 30% relative humidity
(b) 20°C and 30% relative humidity
(c) 25°C and 30% relative humidity
*(d) 20°C and 60% relative humidity

59. During sensible cooling of specific humidity

- (a) Increases (b) Decreases * (c) Remain same (d) None of these

60. During humidification process dry bulb temperature

- (a) Increases (b) Decreases * (c) Remain same (d) None of these

61. In a psychrometric chart, the humidification process is represented by

- * (a) vertical line (b) horizontal line (c) Inclined line (d) Curved line

62. In a psychrometric chart curved lines indicate

- (a) Dry bulb temperature (b) Wet bulb temperature
(c) Dew point temperature * (d) Relative humidity

63. Process used for dehumidification of air is

- (a) Heating * (b) cooling (c) Injecting water (d) All of these

64. Moisture content of water is indicated by

- * (a) Adiabatic saturation temperature (b) Dry bulb temperature
(c) Dew point temperature (d) None of these

65. Heat removing capacity of a one tonne refrigerator is

- (a) 25 Kcal/Sec * (b) 50 Kcal/min (c) 50 Kcal/hour (d) 100 Kcal/hour

66. The undesirable property of a refrigerant is

- (a) Nontoxic (b) Non-flammable (c) Non-explosive * (d) high boiling point

67. The refrigerant used as a substitute of R-12 is

- * (a) R-134a (b) M-134a (c) R-145a (d) none

68. The freezing point of R-12 is

- (a) -86.6°C (b) -95.2°C (c) -107.7°C * (d) -135.8°C

69. Which of the following has highest critical pressure

- (a) R-11 (b) R-12 * (c) R-22 (d) Ammonia

70. The colour of refrigerant R-22 is

- * (a) Green (b) White (c) Black (d) Orange