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Trinity ITl Udyavara

Answer Key

Duration: 60 Mins

Total Marks: 60

Q.ID: ITISKILL1699WP

1. What is the reason if refrigerator runs normally but no cooling effect?

- A) Condenser block B) Leakage of refrigerant
C) Filter block D) Over charge

Answer: B) Leakage of refrigerant

2. Which movement of plunger energises the start winding in relay operation?

- A) Horizontally left B) Vertically up
C) Bottom side D) Vertically down

Answer: B) Vertically up

3. Which method of refrigeration system is adopted in frost free refrigerator?

- A) Vapour absorption B) Evacuating
C) Vapour compression D) Water vapour

Answer: C) Vapour compression

4. Which component actuates the defrost cycle in frost free refrigerator?

- A) Defrost heater B) Timer
C) Bimetal thermo D) Relay

Answer: B) Timer

5. Which is used to clean the condenser fins of a refrigerator?

- A) Soap solution B) Painting brush
C) Fin comb D) Diluted acid

Answer: B) Painting brush

6. Which sheet is used to check the tightness of door gasket of a refrigerator?

- A) Plastic B) Zinc
C) Copper D) Rubber

Answer: A) Plastic

7. Which thermodynamic process the temperature is kept constant?

- A) Constant pressure process B) Constant volume process
C) Isothermal process D) Isobaric process

Answer: C) Isothermal process

8. Which refrigeration system works on directly by the heat energy?

- A) Vapour absorption refrigeration B) Mechanical refrigeration
C) Vapour compression refrigeration D) Jet refrigeration

Answer: A) Vapour absorption refrigeration

9. Which two components do the compressor function in vapour absorption system?

- A) Generator and separator B) Generator and condenser
C) Generator and evaporator D) Generator and absorber

Answer: D) Generator and absorber

10. Which method is used to connect the swaged joint in copper tubes?

- A) Lead soldering B) Fusion welding
C) Silver brazing D) TIG welding

Answer: C) Silver brazing

11. What is the physical state of ammonia at condenser inlet in vapour absorption system?

- A) Solid B) Semi solid
C) Vapour D) Liquid

Answer: C) Vapour

12. Which factors produce work?

- A) Force and time B) Force and power
C) Force and distance D) Time and distance

Answer: C) Force and distance

13. What is the absolute pressure of gas in a cylinder, if gauge reads 135.3 p.s.i?

- A) 160 p.s.i.a B) 130 p.s.i.a
C) 150 p.s.i.a D) 140 p.s.i.a

Answer: C) 150 p.s.i.a

14. Which device equalizes the system pressure in frost free refrigerator?

- A) Compressor B) Capillary tube
C) Condenser D) Evaporator

Answer: B) Capillary tube

15. What is the absolute zero temperature in degree centigrade?

- A) 0 Degree Centigrade B) 212 Degree Centigrade

C) -273 Degree Centigrade D) 100 Degree Centigrade

Answer: C) -273 Degree Centigrade

16. Which domestic system uses automatic defrost?

- A) Split air - conditioner B) Window air - conditioner
C) Frost free refrigerator D) Conventional refrigerator

Answer: C) Frost free refrigerator

17. What is the energy of a body by virtue of its position?

- A) Kinetic energy B) Wind energy
C) Electrical energy D) Potential energy

Answer: D) Potential energy

18. What is the temperature maintained in the refrigerator freezer?

- A) - 65 Degree Centigrade B) - 45 Degree Centigrade
C) - 15 Degree Centigrade D) 0 Degree Centigrade

Answer: C) - 15 Degree Centigrade

19. What is the boiling point of pure water in centigrade scale?

- A) 32 Degree Centigrade B) 212 Degree Centigrade
C) 100 Degree Centigrade D) 0 Degree Centigrade

Answer: C) 100 Degree Centigrade

20. Which instrument is used to measure atmospheric pressure?

- A) Hygrometer B) Manometer
C) Barometer D) Hydrometer

Answer: C) Barometer

21. What is the melting temperature of silver brazing rod?

- A) 1200 Degree F B) 1120 Degree F
C) 1300 Degree F D) 1250 Degree F

Answer: B) 1120 Degree F

22. Which electrical control cuts off heating element in frost free refrigerator?

- A) Timer B) Thermostat
C) Relay D) Bimetal thermo

Answer: D) Bimetal thermo

23. What is the result if discharge reed is broken in open type compressor?

- A) Oil pumping B) More pumping
C) Poor pumping D) No pumping

Answer: D) No pumping

24. What is the cut out temperature of bimetal thermo in frost free refrigerator?

- A) 5 Degree Centigrade B) 20 Degree Centigrade

C) 10 Degree Centigrade D) 25 Degree Centigrade

Answer: C) 10 Degree Centigrade

25. What is effect of compression process on refrigerant vapour?

- A) Heat the vapour below saturation B) Cool the vapour above saturation
C) Decrease the pressure and temperature D) Increase the pressure and temperature

Answer: D) Increase the pressure and temperature

26. Where the thermal bulb is fixed in frost free refrigerator?

- A) Last coil of condenser B) Last coil of evaporator
C) Discharge line D) Liquid line

Answer: B) Last coil of evaporator

27. Which type of evaporator is used in frost free refrigerator?

- A) Wire mesh B) Plate type
C) Finned tube D) Shell and tube

Answer: C) Finned tube

28. What is the atmospheric pressure at sea level?

- A) 1.6 Kg/cm² B) 1.3 Kg/cm²
C) 1.5 Kg/cm² D) 1.033 kg/cm²

Answer: D) 1.033 kg/cm²

29. What is the capacity of doing work?

- A) Power B) Energy
C) Force D) Work

Answer: B) Energy

30. What is the rate of doing work?

- A) Velocity B) Power
C) Force D) Duty

Answer: B) Power

31. Which is connected in series with start capacitor in motor circuit?

- A) Running winding B) Starting winding
C) Running Terminal D) Common terminal

Answer: B) Starting winding

32. Which instrument is used for measuring heat?

- A) Ammeter B) Calorimeter
C) Anemometer D) Thermometer

Answer: B) Calorimeter

33. Which components are connected by metering device in vapour compression cycle?

- A) Compressor and evaporator
- C) Condenser and evaporator

- B) Evaporator and suction line
- D) Compressor and condenser

Answer: C) Condenser and evaporator

34. Which component is used in frost free refrigerator?

- A) Liquid receiver
- C) Timer switch
- B) Oil separator
- D) Plate coil evaporator

Answer: C) Timer switch

35. What is the barometer reading at sea level in Hg column?

- A) 740 mm
- C) 750 mm
- B) 760 mm
- D) 730 mm

Answer: B) 760 mm

36. Which component defrosts in frost free refrigerator?

- A) Capillary tube
- C) Heater
- B) Bulb
- D) Thermostat

Answer: C) Heater

37. Which component is replaced to prevent air entering the refrigerator cabinet?

- A) Thermostat
- C) Door hinges
- B) Door gasket
- D) Door paint

Answer: B) Door gasket

38. What is the effect of contamination in refrigeration system?

- A) Poor cooling
- C) Low pressure
- B) High heating
- D) Low humidity

Answer: A) Poor cooling

39. What is the effect of bimetal thermo sticks in ON position in frost free refrigerator?

- A) Poor cooling
- C) No cooling
- B) Accumulation of frost
- D) More cooling

Answer: C) No cooling

40. Which law is related to the constant PV at constant T?

- A) Pascal s law
- C) Renaults law
- B) Charles s law
- D) Boyles law

Answer: D) Boyles law

41. Which component controls the thermostat and defrost heater in frost free refrigerator?

- A) OLP
- C) Thermoheater
- B) Defrost timer
- D) Relay

Answer: B) Defrost timer

42. How the capacity of refrigerator is expressed?

- A) Litres
- C) Weightage
- B) Wattage
- D) Tonnage

Answer: A) Litres

43. Which components maintain the pressure difference in RAC system?

- A) Receiver and condenser
- C) Condenser and filter
- B) Evaporator and motor
- D) Compressor and expansion device

Answer: D) Compressor and expansion device

44. What is the advantage of sealed system compared to open type system?

- A) No shaft seal is required
- C) Cylinder lubrication is easier
- B) Mechanical efficiency is greater
- D) Any refrigerant can be used

Answer: A) No shaft seal is required

45. Which compressor dome handles high pressure and high temperature vapour?

- A) Semi hermetic reciprocating compressor
- C) Hermetic rotary compressor
- B) Open type reciprocating compressor
- D) Hermetic reciprocating compressor

Answer: C) Hermetic rotary compressor

46. What is the advantage of using flux in brazing?

- A) Over heating
- C) Chemical reaction
- B) Prevent Oxidation
- D) Melting tubes

Answer: B) Prevent Oxidation

47. Which component is turned off while defrost heater is energised?

- A) Thermostat sensor
- C) Evaporator fan
- B) Over load protector
- D) Cabinet bulb

Answer: C) Evaporator fan

48. What is the equivalent absolute scale for centigrade?

- A) Celsius
- C) Kelvin
- B) Rankine
- D) Fahrenheit

Answer: C) Kelvin

49. Which device protects the compressor motor from drawing more current?

- A) Relay
- C) Door switch
- B) Thermostat
- D) OLP

Answer: D) OLP

50. Which condition is maintained for refrigerant in high side of vapour compression system?

- A) Above its critical temperature
B) Below its freezing temperature
C) Above its freezing temperature
D) Below its critical temperature

Answer: D) Below its critical temperature

51. What is bottom dead centre in reciprocating compressor cylinder?

- A) The piston starts in cylinder at top
B) The piston stops in cylinder at top
C) The piston moves down from the point of cylinder
D) The piston moves up from the point of cylinder

Answer: D) The piston moves up from the point of cylinder

52. What is the unit of heat in M.K.S system?

- A) K.Cal (Kilo Calorie)
B) B.T.U (British thermal unit)
C) KV (Kilo Volt)
D) K.W (Kilo Watt)

Answer: A) K.Cal (Kilo Calorie)

53. Which component switches ON/OFF the starting winding in RSIR motor?

- A) Relay
B) Thermostat
C) OLP
D) Capacitor

Answer: A) Relay

54. What is the purpose of accumulator in a refrigerator?

- A) Improves oil circulation
B) Prevents liquid flood back to compressor
C) Avoids hunting of refrigerant
D) Prevents surging of refrigerant

Answer: B) Prevents liquid flood back to compressor

55. What is top dead centre in reciprocating compressor cylinder?

- A) The piston moves down from the point of cylinder
B) The piston stops in cylinder at bottom

- C) The piston moves up from the point of cylinder
D) The piston starts in cylinder at bottom

Answer: A) The piston moves down from the point of cylinder

56. What is the working condition of component during defrost cycle in frost free refrigerator?

- A) Compressor is not running
B) Relay activated
C) Thermostat cuts off
D) Evaporator fan motor is running

Answer: A) Compressor is not running

57. What is the cause for refrigerator door gap at closing position?

- A) Either side gap more
B) Uneven condenser level
C) Uneven floor level
D) Either side gap less

Answer: C) Uneven floor level

58. Where the manually defrosted water is stored in refrigerator?

- A) Bottom of the evaporator
B) Bottom of the condenser
C) Top of the freezer
D) Tray on top of the compressor

Answer: D) Tray on top of the compressor

59. How the level of heat in a substance is expressed?

- A) Humidity
B) Temperature
C) Pressure
D) Micron

Answer: B) Temperature

60. Why frost free model refrigerator takes less freezing time of products?

- A) Low temperature setting
B) Forced air circulation
C) Natural air circulation
D) High temperature setting

Answer: B) Forced air circulation