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Trinity ITI Udyavara

Question Paper

Duration: 60 Mins

Total Marks: 60

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Student Name: \_\_\_\_\_ Roll No: \_\_\_\_\_

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

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

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

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

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

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

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

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

5. How the capacity of refrigerator is expressed?

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

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

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

7. Which factors produce work?

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

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

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

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

- A) Compressor and                B) Compressor and  
evaporator                        condenser  
C) Evaporator and suction      D) Condenser and  
line                                evaporator

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

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

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

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

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

- A) 212 Degree Centigrade      B) 100 Degree Centigrade  
C) -273 Degree Centigrade    D) 0 Degree Centigrade

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

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

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

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

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

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

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

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

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

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

18. Which domestic system uses automatic defrost?

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

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

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

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

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

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

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

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

- A) 5 Degree Centigrade  
C) 20 Degree Centigrade
- B) 10 Degree Centigrade  
D) 25 Degree Centigrade

23. What is the rate of doing work?

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

24. What is the capacity of doing work?

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

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

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

26. What is the atmospheric pressure at sea level?

- A) 1.033 kg/cm<sup>2</sup>  
C) 1.6 Kg/cm<sup>2</sup>
- B) 1.5 Kg/cm<sup>2</sup>  
D) 1.3 Kg/cm<sup>2</sup>

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

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

28. Which component defrosts in frost free refrigerator?

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

29. Which instrument is used to measure atmospheric pressure?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- A) Generator and absorber  
B) Generator and condenser

C) Generator and separator D) Generator and evaporator

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

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

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

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

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

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

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

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

41. What is the equivalent absolute scale for centigrade?

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

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

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

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

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

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

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

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

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

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

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

47. What is top dead centre in reciprocating compressor

cylinder?

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

48. Which thermodynamic process the temperature is kept constant?

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

49. Which component is used in frost free refrigerator?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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**57.** What is the melting temperature of silver brazing rod?

- A) 1200 Degree F
  - B) 1300 Degree F
  - C) 1120 Degree F
  - D) 1250 Degree F
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**58.** What is the cause for refrigerator door gap at closing position?

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

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

- A) Plastic
  - B) Copper
  - C) Zinc
  - D) Rubber
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**60.** Which instrument is used for measuring heat?

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