

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

1. What is the rate of doing work?

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

2. 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 moves down from the point of cylinder  
D) The piston stops in cylinder at bottom

3. What is the capacity of doing work?

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

4. Which component defrosts in frost free refrigerator?

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

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

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

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

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

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

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

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

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

9. What is the equivalent absolute scale for centigrade?

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

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

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

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

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

12. Which instrument is used for measuring heat?

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

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

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

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

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

15. What is the atmospheric pressure at sea level?

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

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

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

17. Which domestic system uses automatic defrost?

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

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

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

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

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

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

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

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

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

22. Which component is used in frost free refrigerator?

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

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

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

24. How the capacity of refrigerator is expressed?

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

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

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

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

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

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

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

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

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

29. Which thermodynamic process the temperature is kept constant?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- A) Poor pumping                    B) No pumping

C) Oil pumping

D) More pumping

C) Silver brazing

D) Lead soldering

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

A) 730 mm

B) 750 mm

C) 760 mm

D) 740 mm

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

A) Filter block

B) Over charge

C) Leakage of refrigerant

D) Condenser block

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

A) Capillary tube

B) Condenser

C) Compressor

D) Evaporator

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

A) Jet refrigeration

B) Vapour absorption refrigeration

C) Mechanical refrigeration

D) Vapour compression refrigeration

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

A) 10 Degree Centigrade

B) 5 Degree Centigrade

C) 20 Degree Centigrade

D) 25 Degree Centigrade

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

A) Zinc

B) Plastic

C) Rubber

D) Copper

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

A) Timer

B) Defrost heater

C) Relay

D) Bimetal thermo

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

A) Semi hermetic reciprocating compressor

B) Hermetic reciprocating compressor

C) Hermetic rotary compressor

D) Open type reciprocating compressor

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

A) Diluted acid

B) Painting brush

C) Fin comb

D) Soap solution

49. Which factors produce work?

A) Time and distance

B) Force and time

C) Force and power

D) Force and distance

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

A) Low humidity

B) Low pressure

C) High heating

D) Poor cooling

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

A) Door hinges

B) Door gasket

C) Thermostat

D) Door paint

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

A) TIG welding

B) Fusion welding