

# ITI Quiz - 02-Feb-2026 08:56 AM

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Trinity ITI Udyavara

Question Paper

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Score: 17/60 (28.33%)

Code: 1134

1. What is the atmospheric pressure at sea level?

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

2. What is the rate of doing work?

- A) Duty B) Force  
C) **Power (Correct)** D) Velocity

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

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

4. Which instrument is used to measure atmospheric pressure?

- A) Hygrometer B) Hydrometer  
C) Manometer D) **Barometer (Correct)**

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

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

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

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

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

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

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

- A) **760 mm** B) 750 mm (Incorrect)  
C) 740 mm D) 730 mm

9. What is the capacity of doing work?

- A) Work B) Power (Incorrect)  
C) Force D) **Energy**

10. Which instrument is used for measuring heat?

- A) Thermometer (Incorrect) B) Anemometer  
C) **Calorimeter** D) Ammeter

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

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

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

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

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

- A) Micron (Incorrect) B) Pressure  
C) Humidity D) **Temperature**

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

- A) Wind energy B) Kinetic energy  
C) **Potential energy** D) Electrical energy (Incorrect)

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

- A) Solid B) Liquid  
C) **Vapour** D) Semi solid (Incorrect)

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

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

17. Which thermodynamic process the temperature is kept constant?

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

18. What is the equivalent absolute scale for centigrade?

- A) Kelvin**  
C) Rankine
- B) Celsius  
D) Fahrenheit (Incorrect)

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

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

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

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

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

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

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

- A) Thermoheater  
C) Relay
- B) Defrost timer (Correct)**  
D) OLP

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

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

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

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

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

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

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

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

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

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

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

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

29. Which factors produce work?

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

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

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

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

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

32. Which component defrosts in frost free refrigerator?

- A) Bulb  
C) Thermostat
- B) Heater**  
D) Capillary tube (Incorrect)

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

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

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

- A) Thermostat (Incorrect)  
**C) Relay**
- B) Capacitor  
D) OLP

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

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

36. Which domestic system uses automatic defrost?

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

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

- A) Rubber (Incorrect)  
C) Copper
- B) Plastic**  
D) Zinc

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

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

39. How the capacity of refrigerator is expressed?

- A) Weightage  
C) Wattage (Incorrect)
- B) Tonnage  
**D) Litres**

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

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

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

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

42. Which component is used in frost free refrigerator?

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

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

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

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

- A) OLP (Correct)**  
C) Thermostat
- B) Relay  
D) Door switch

45. Which device equalizes the system pressure in frost free

refrigerator?

- A) Capillary tube**  
C) Condenser (Incorrect)
- B) Compressor  
D) Evaporator

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

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

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

- A) Bimetal thermo**  
C) Relay
- B) Thermostat  
D) Timer (Incorrect)

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

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

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

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

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

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

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

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

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

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

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

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

54. Why frost free model refrigerator takes less freezing time

of products?

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

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

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

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

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

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

- A) High heating    **B) Poor cooling (Correct)**

C) Low pressure

D) Low humidity

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

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

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

- A) Thermostat    **B) Door gasket (Correct)**  
C) Door paint    D) Door hinges

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

- A) Poor pumping    B) More pumping  
C) Oil pumping    **D) No pumping (Correct)**