

March 2026

Answer Key

Duration: 30 Mins

Total Marks: 28

Q.ID: ITISKILL7403DH

1. Which method is used to check the leakage of hydro fluoro carbon refrigerants?

- A) Electric torch B) Litmus paper
C) Sulphur candles D) Electronic leak detector

Answer: D) Electronic leak detector

2. What is the minimum distance to be maintained between the wall and refrigerator condenser?

- A) 18 cm B) 22 cm
C) 13 cm D) 15 cm

Answer: D) 15 cm

3. Which gas is used for pressurising and testing leakage of RAC system?

- A) N₂ B) SO₂
C) O₂ D) O₃

Answer: A) N₂

4. What is the full form of the relay - PTC?

- A) Positive temperature coefficient B) Permanent temperature control
C) Positive terminal circuit D) Polar terminal checking

Answer: A) Positive temperature coefficient

5. Which refrigerant is highly flammable?

- A) HCFC - Hydro chloro fluoro carbon B) CFC - Chloro fluoro carbon
C) HC - Hydro carbon D) HFC - Hydro fluoro carbon

Answer: C) HC - Hydro carbon

6. What is the resistance level of start winding in a refrigerator s compressor motor?

- A) Low resistance B) Medium resistance
C) High resistance D) Zero resistance

Answer: C) High resistance

7. Which process absorbs heat from the cabinet in refrigerator?

- A) Condensation B) Compression
C) Expansion D) Evaporation

Answer: D) Evaporation

8. How the zeotropic refrigerant is taken from the cylinder for charging it into RAC system?

- A) Liquid state B) Vapour state

- C) Super heated vapour D) Vapour and liquid

Answer: A) Liquid state

9. Which material is used to make the evaporator of refrigerator?

- A) Galvanised iron B) Aluminium
C) Stainless steel D) Brass

Answer: B) Aluminium

10. Which refrigerant property is desirable for V.C system?

- A) Corrosive to metals B) Low latent heat valve
C) Low boiling point D) Low Dielectric strength

Answer: C) Low boiling point

11. Which type of compressor is used as a vacuum pump?

- A) Scroll B) Reciprocating
C) Centrifugal D) Rotary

Answer: D) Rotary

12. Which component absorbs the maximum heat from the cabinet materials in frost free refrigerator?

- A) Compressor B) Condenser
C) Evaporator D) Expansion valve

Answer: C) Evaporator

13. Which two terminals read the highest resistance while testing refrigerator compressor motor?

- A) Start and run B) Start and common
C) Start and compressor body D) Common and run

Answer: A) Start and run

14. Which type of motor drive is used in hermetic compressor in refrigerator?

- A) Belt drive B) Gear drive
C) Direct drive D) Push drive

Answer: C) Direct drive

15. Which two tubes act as heat exchanger in a refrigerator?

- A) Suction and charging tube B) Discharge and suction tube
C) Discharge and capillary tube D) Capillary and suction tube

Answer: D) Capillary and suction tube

16. What is the fault in compressor motor if there is electrical

continuity between the dome and motor terminal?

- A) Open common terminal B) Shorted run winding
- C) Grounded compressor motor D) Shorted start winding

Answer: C) Grounded compressor motor

17. How the potential relay coil is connected internally to the relay terminals?

- A) 2 and 4 B) 5 and 4
- C) 5 and 2 D) 5 and 1

Answer: C) 5 and 2

18. Which is the hydrocarbon refrigerant?

- A) R 500 B) R 12
- C) R123 D) R 600a

Answer: D) R 600a

19. Which refrigerant blend is highly flammable?

- A) CFC B) HCFC
- C) HFC D) HC

Answer: D) HC

20. Which terminals are momentarily shorted to start the compressor motor without relay?

- A) C and R terminal B) C and S terminal
- C) S and R terminal D) S and compressor body

Answer: C) S and R terminal

21. What is the reason for filter drier sweating in refrigerator?

- A) Oxygen in the system B) Nitrogen in the system
- C) Moisture in the system D) Oil in the system

Answer: C) Moisture in the system

22. Which part of the refrigerator cools the liquid refrigerant in capillary tube?

- A) Evaporator B) Suction line
- C) Discharge line D) Condenser

Answer: B) Suction line

23. Which component rejects the maximum heat to ambient air in refrigerator?

- A) Compressor B) Condenser
- C) Expansion valve D) Evaporator

Answer: B) Condenser

24. How does the evaporator frost affect the sub zero temperature thermally in refrigerator?

- A) As radiator B) As insulator
- C) As convector D) As conductor

Answer: B) As insulator

25. What is the function of refrigerant fluid in a refrigerator?

- A) Releases heat inside the cabinet B) Absorbs heat from outside the cabinet
- C) Absorbs heat from inside the cabinet D) Absorbs heat from bottom side cabinet

Answer: C) Absorbs heat from inside the cabinet

26. What is ensured before removing a leaky evaporator in a refrigerator?

- A) Check the drain tray of evaporator B) Pressurize the system with refrigerant
- C) Removal of the thermostat sensor D) Recharge refrigerant to the system

Answer: C) Removal of the thermostat sensor

27. What is the name of heat carrying medium in vapour compression system?

- A) Refrigerant B) Water
- C) Air D) Liquid

Answer: A) Refrigerant

28. Which refrigerant is used in domestic refrigerator?

- A) R 134 a B) R 22
- C) R 32 D) R 407 c

Answer: A) R 134 a