

March 2026

Question Paper

Duration: 30 Mins

Total Marks: 28

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

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

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

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

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

3. What is the fault in compressor motor if there is electrical continuity between the dome and motor terminal?

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

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

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

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

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

6. Which refrigerant is used in domestic refrigerator?

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

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

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

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

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

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

- A) Evaporation  
 B) Expansion

C) Compression

D) Condensation

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

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

11. Which refrigerant is highly flammable?

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

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

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

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

- A) Vapour and liquid  
 B) Liquid state  
 C) Super heated vapour  
 D) Vapour state

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

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

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

- A)  $O_3$   
 B)  $O_2$   
 C)  $SO_2$   
 D)  $N_2$

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

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

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

- A) Refrigerant  
 B) Liquid

C) Air

D) Water

A) R123

B) R 500

C) R 12

D) R 600a

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

A) 22 cm

B) 13 cm

C) 15 cm

D) 18 cm

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

A) As convector

B) As radiator

C) As insulator

D) As conductor

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

A) Compressor

B) Condenser

C) Evaporator

D) Expansion valve

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

A) 5 and 4

B) 5 and 1

C) 2 and 4

D) 5 and 2

22. Which refrigerant blend is highly flammable?

A) CFC

B) HFC

C) HCFC

D) HC

23. Which is the hydrocarbon refrigerant?

24. 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

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

A) Brass

B) Stainless steel

C) Galvanised iron

D) Aluminium

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

A) Belt drive

B) Direct drive

C) Gear drive

D) Push drive

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

A) Start and compressor body

B) Start and common

C) Start and run

D) Common and run

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

A) Releases heat inside the cabinet

B) Absorbs heat from inside the cabinet

C) Absorbs heat from outside the cabinet

D) Absorbs heat from bottom side cabinet