

Duration: 30 Mins

Total Marks: 25

Q.ID: ITISKILL9247UE

1. Which type of insulation material is used in modern refrigerators?

- A) Saw dust
- B) Thermocol
- C) Poly urethane foam
- D) Glass wool

Answer: C) Poly urethane foam

2. Which type of expansion device is used in frost free refrigerator?

- A) Capillary tube
- B) Automatic expansion valve
- C) Thermostatic expansion valve
- D) Float valve

Answer: A) Capillary tube

3. Which type of defrosting method is used in frost free refrigerator?

- A) Hot gas defrosting
- B) Hot water defrosting
- C) Manual defrosting
- D) Electric defrosting

Answer: D) Electric defrosting

4. How much minimum gap is left on either side of the refrigerator from the wall during installation?

- A) 10 cm
- B) 25 cm
- C) 15 cm
- D) 5 cm

Answer: C) 15 cm

5. How pressure drop is achieved in capillary tube of refrigeration cycle?

- A) The friction between refrigerant and oil
- B) The friction between piston and cylinder
- C) The friction between refrigerant and tube
- D) The friction between belt and pulley

Answer: C) The friction between refrigerant and tube

6. Which cooling medium is used to condense the refrigerant vapour in plate and tube condenser?

- A) Brine solution
- B) Natural Air
- C) Forced Air
- D) Water

Answer: B) Natural Air

7. What is the type of condenser used in direct cool refrigerator?

- A) Wire mesh
- B) Fin and tube
- C) Tube in tube
- D) Shell and tube

Answer: A) Wire mesh

8. What are the causes for blockage in capillary tube?

- A) Non condensable gases
- B) Solid particles
- C) Over charging of refrigerant
- D) Moisture and wax from oil

Answer: D) Moisture and wax from oil

9. Why evaporator of air conditioner has more fins per inch?

- A) Increase the air contact
- B) Decrease the air circulation
- C) Produce more ice
- D) Increase the water dripping

Answer: A) Increase the air contact

10. What is the remedy for broken bimetal thermo in a frost free refrigerator?

- A) Readjust the bimetal thermo
- B) Reuse the bimetal thermo
- C) Replace the bimetal thermo
- D) Repair the bimetal thermo

Answer: C) Replace the bimetal thermo

11. Which application uses the capillary tube expansion device?

- A) Hospital IAQ systems
- B) Domestic RAC units
- C) Industrial ice plants
- D) Commercial AC plants

Answer: B) Domestic RAC units

12. Which evaporator is known as extended surface evaporator?

- A) Bare tube evaporator
- B) Finned evaporator
- C) Evaporator tubes
- D) Coiled stake evaporator

Answer: B) Finned evaporator

13. Where the dehydrator is installed in a refrigeration system?

- A) Liquid line
- B) Capillary line
- C) Suction line
- D) Discharge line

Answer: A) Liquid line

14. Which colour is used for painting condenser coil?

- A) Red
- B) Black
- C) Green
- D) Blue

Answer: B) Black

15. Which component is connected in series with bimetal thermo in a frost free refrigerator?

- A) Blower
C) Cabinet bulb
- B) Defrost heater
D) Door switch

Answer: B) Defrost heater

16. What is the purpose of chemical spraying on finned condenser?

- A) Remove the rust on the fins
C) Flush out the condenser tubes
- B) Blow the dust from the fins
D) Correct the bends in fins tubes

Answer: A) Remove the rust on the fins

17. Which type of evaporator is used in house hold refrigerator?

- A) Shell and coil evaporator
C) Plate evaporator
- B) Tube in tube evaporator
D) Shell and tube evaporator

Answer: C) Plate evaporator

18. What is the desiccant used in dehydrator of hydrocarbon charged RAC unit?

- A) Sulphur dioxide
C) Calcium chloride
- B) Silica gel
D) Ammonia

Answer: B) Silica gel

19. Which gas is used to flush out the coils of air cooled condenser?

- A) kaksr
C) Oxygen
- B) Pure dry air
D) Dry nitrogen

Answer: D) Dry nitrogen

20. Which component is connected in series with defrost heater in a frost free refrigerator?

- A) Cabinet bulb
C) Bimetal thermo
- B) Door switch
D) Heating element

Answer: C) Bimetal thermo

21. Which device meters the amount of refrigerant entering the evaporator in window AC?

- A) Capillary tube
C) Heat exchanger
- B) Finned tube condenser
D) Accumulator

Answer: A) Capillary tube

22. What is the advantage of using capillary tube as an expansion device?

- A) Volume balancing is easy
C) Complicate design
- B) Temperature balancing is easy
D) Pressure balancing is easy

Answer: D) Pressure balancing is easy

23. Which gas is used for flushing blocked capillary tube?

- A) Dry nitrogen
C) Moist air
- B) Hydrogen
D) Aqua ammonia

Answer: A) Dry nitrogen

24. What is the physical change of refrigerant in evaporator?

- A) Solid to liquid
C) Liquid to vapour
- B) Vapour to solid
D) Vapour to liquid

Answer: C) Liquid to vapour

25. What is the use of dehydrator?

- A) Absorb moisture
C) Absorb oil
- B) Absorb refrigerant
D) Absorb heat

Answer: A) Absorb moisture