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

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

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

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

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

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

4. Which evaporator is known as extended surface evaporator?

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

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

- A) Saw dust B) Glass wool
 C) Thermocole **D) Poly urethane foam (Correct)**

6. Which colour is used for painting condenser coil?

- A) Green **B) Black (Correct)**
 C) Blue D) Red

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

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

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

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

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

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

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

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

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

- A) Discharge line B) Capillary line
 C) Suction line **D) Liquid line (Correct)**

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

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

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

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

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

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

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

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

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

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

17. Which application uses the capillary tube expansion device?

- A) Domestic RAC units (Correct)** B) Industrial ice plants

C) Commercial AC plants D) Hospital IAQ systems

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

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

19. What is the use of dehydrator?

- A) Absorb oil B) Absorb heat
C) Absorb refrigerant **D) Absorb moisture (Correct)**

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

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

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

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

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

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

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

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

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

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

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

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