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**Score: 22/25 (88.00%)**

**Code: 7603**

1. Which part connects the piston with small end of connecting rod in a reciprocating compressor?

- A) **Piston pin (Correct)**      B) Piston bolt  
C) Piston rings                      D) Piston sleeve

2. Which winding is made of thin wire in single phase motor?

- A) Main                                      B) Series  
C) **Starting (Correct)**                  D) Running

3. Which instrument is used to identify the terminals of a compressor motor?

- A) Ammeter                                B) Voltmeter  
C) **Ohm meter (Correct)**              D) Anemometer

4. Which motor has the least starting torque?

- A) CSIR                                      B) CSR  
C) **RSIR**                                      D) PSC (Incorrect)

5. Which motor has the least starting torque?

- A) CSIR (Incorrect)                      B) CSR  
C) **RSIR**                                      D) PSC

6. Which winding is made of thick wire in single phase induction motor?

- A) Starting                                  B) **Running (Correct)**  
C) Auxiliary                                D) Additional

7. Which type of compressor is used for domestic refrigerator?

- A) Semi sealed compressor      B) Centrifugal compressor  
C) **Hermetic compressor (Correct)**      D) Open type compressor

8. What is the revolving part of induction motor?

- A) Stator                                      B) **Rotor**  
C) Relay                                      D) Winding (Incorrect)

9. Which type of rotor is used in 3 Phase induction motor?

- A) **Squirrel cage rotor (Correct)**      B) Shaded pole rotor  
C) Laminated rotor                      D) Solid rotor

10. Which lubricant oil is used in swash plate of R 134a compressor?

- A) Servo 20                                B) **POE (Correct)**  
C) SAE - 40                                D) Mineral oil

11. Which valve is closed during compression stroke in reciprocating compressor?

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

12. Which gas is used for pressure testing the compressor dome?

- A) Air    B) Oxygen  
C) **Nitrogen (Correct)**                  D) Refrigerant

13. Which cooling medium is used to cool the motor of a hermetic reciprocating compressor in AC?

- A) Discharge vapour                      B) Liquid refrigerant  
C) **Suction vapour (Correct)**          D) Water

14. What is the advantage of a hermetically sealed compressor in refrigerator?

- A) **Silent operation (Correct)**              B) Easily serviceable  
C) Noise is more                          D) Cost is high

15. Which movement of the scroll compresses the low pressure vapour in scroll compressor?

- A) Reciprocating                          B) Centrifugal  
C) Rotating                                D) **Orbital (Correct)**

16. Which capacitor is disconnected by relay in capacitor start and induction run motor?

- A) **Starting capacitor (Correct)**              B) Running capacitor  
C) Boosting capacitor                      D) Power factor correction capacitor

17. What is the formula to find out the synchronous speed of induction motor?

- A)  $N_s = (150P/f)$                           B)  **$N_s = (120f/P)$  (Correct)**  
C)  $N_s = (150f/P)$                           D)  $N_s = (120P/f)$

18. How the difference between the synchronous speed and the actual rotor speed is

specified?

- A) Lead
- B) Lag
- C) Slip (Correct)**
- D) Trip

19. What is the use of capacitor in PSC operated induction motor?

- A) Decrease the starting torque
- B) Cancel the starting torque
- C) Improve the power factor (Correct)**
- D) Decrease the power factor

20. Where the refrigerant vapour is compressed in scroll compressor?

- A) Fixed and reciprocating scroll
- B) Between fixed and orbiting scrolls (Correct)**
- C) Crank and connecting rod
- D) Eccentric and cylinder

21. What is the use of suction baffle in a scroll compressor?

- A) Reduce noise of compressor (Correct)**
- B) Increase noise of compressor
- C) Reduce capacity of compressor
- D) Allow liquid to enter into compressor

22. What is the reason for poor compression?

- A) Less clearance volume
- B) Scratches on the piston surface (Correct)**
- C) Lapped valve plate and reed seat
- D) Good lubrication on the moving parts

23. What is the reason for swash plate compressor failure in car AC?

- A) Oil level is low (Correct)**
- B) Oil level is medium
- C) Thermostat not working
- D) Refrigerant charge normal

24. Why the top of dome is hot in a scroll compressor?

- A) Discharge plenum is at top (Correct)**
- B) Suction super heat is less
- C) Suction gas not cooled
- D) Undercharged system

25. What is the effect of moist air present inside the hermetic system?

- A) Capacity of compressor will increase
- B) Less wear and tear in compressor
- C) Harmful to the compressor and motor (Correct)**
- D) Increase the life of compressor