

Student: Shodhan

Score: 21/25 (84.00%)

Code: 2318

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 B) CSR
C) **RSIR** D) PSC (Incorrect)

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 (Correct)**
C) Relay D) Winding

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**
C) SAE - 40 D) Mineral oil (Incorrect)

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 (Incorrect) B) Oxygen
C) **Nitrogen** 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