

Student: Yashwith

Score: 12/34 (35.29%)

Code: 2529

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

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

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

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

3. What is the physical condition of refrigerant in hermetic dome of rotary compressor?

- A) LP Liquid (Incorrect) B) HP Liquid
C) **HP Vapour** D) LP Vapour

4. Which is a positive displacement compressor?

- A) Centrifugal compressor B) **Scroll compressor**
C) Water pump D) Oil pump (Incorrect)

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

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

6. Which motor has the least starting torque?

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

7. Which motor has the least starting torque?

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

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

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

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

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

10. What is the revolving part of induction motor?

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

11. 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

12. What is the temperature set in thermostat that stops the compressor motor?

- A) Cut in B) Range
C) **Cut out (Correct)** D) Differential

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

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

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

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

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

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

16. 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** D) Water (Incorrect)

17. What is the method of starting a 3 phase slip ring induction motor?

- A) With starting relay B) Using starting capacitor
C) With running capacitor (Incorrect) D) **Adding resistance to rotor winding**

18. Which is used to connect the rotor bars in 3phase squirrel cage induction motor?

- A) Screw B) Welded

C) End ringD) Nut and bolt (Incorrect)

19. What is the use of a starting capacitor in single phase induction motor?

- A) Improve power factor
C) Decrease starting torque
- B) Increase starting torque**
D) Dis connect starting winding (Incorrect)

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

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

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

- A) Reciprocating
C) Rotating (Incorrect)
- B) Centrifugal
D) Orbital

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

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

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

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

24. How to change the direction of rotation in 3 Phase induction motor?

- A) Change neutral (Incorrect)
C) Change any two phase
- B) Change all phase
D) Change the winding only

25. How the difference between the synchronous speed and the actual rotor speed is specified?

- A) Lead
C) Slip
- B) Lag (Incorrect)
D) Trip

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

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

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

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

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

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

29. Which is disconnected by centrifugal switch is RSIR motor?

- A) Running winding (Incorrect)
C) Starting winding
- B) Common winding
D) Running capacitor

30. What is the reason for poor compression?

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

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

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

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

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

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

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

34. What is the cause for frequent tripping of circuit breaker while starting a single phase motor?

- A) Winding open
C) Motor belt removed
- B) Winding short (Correct)**
D) No load on the motor