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Score: 9/34 (26.47%)

Code: 9590

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

- A) **Piston pin** B) Piston bolt
C) Piston rings (Incorrect) 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 B) HP Liquid
C) **HP Vapour (Correct)** D) LP Vapour

4. Which is a positive displacement compressor?

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

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

- A) Ammeter (Incorrect) B) Voltmeter
C) **Ohm meter** 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** B) Shaded pole rotor (Incorrect)
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 B) **POE**
C) SAE - 40 (Incorrect) 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 (Incorrect)
C) With running capacitor 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 ring
D) Nut and bolt (Incorrect)

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

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

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

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

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

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

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

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

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

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

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

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

26. 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

D) Decrease the power factor (Incorrect)

27. 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

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

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

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

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

30. What is the reason for poor compression?

- A) Less clearance volume
B) **Scratches on the piston surface**
C) Lapped valve plate and reed seat (Incorrect)
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**
B) Oil level is medium
C) Thermostat not working
D) Refrigerant charge normal (Incorrect)

32. 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

33. 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

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

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