

Duration: 60 Mins

Total Marks: 25

Q.ID: ITISKILL26648N

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

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

Answer: B) Between fixed and orbiting scrolls

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

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

Answer: A) Suction valve

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

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

Answer: D) $N_s = (120f/P)$

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

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

Answer: B) Harmful to the compressor and motor

5. Which motor has the least starting torque?

- A) RSIR
 B) CSIR
 C) PSC
 D) CSR

Answer: A) RSIR

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

- A) Series
 B) Main
 C) Starting
 D) Running

Answer: C) Starting

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

- A) Running
 B) Starting
 C) Auxiliary
 D) Additional

Answer: A) Running

8. Which part connects the piston with small end of

connecting rod in a reciprocating compressor?

- A) Piston rings
 B) Piston bolt
 C) Piston sleeve
 D) Piston pin

Answer: D) Piston pin

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

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

Answer: C) Squirrel cage rotor

10. What is the revolving part of induction motor?

- A) Rotor
 B) Relay
 C) Winding
 D) Stator

Answer: A) Rotor

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

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

Answer: D) Reduce noise of compressor

12. Which motor has the least starting torque?

- A) CSIR
 B) PSC
 C) CSR
 D) RSIR

Answer: D) RSIR

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

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

Answer: A) Slip

14. 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

Answer: C) Improve the power factor

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

- A) Nitrogen
 B) Refrigerant
 C) Oxygen
 D) Air

Answer: A) Nitrogen

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

- A) Anemometer
- B) Ammeter
- C) Ohm meter
- D) Voltmeter

Answer: C) Ohm meter

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

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

Answer: A) POE

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

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

Answer: A) Suction vapour

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

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

Answer: C) Hermetic compressor

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

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

Answer: A) Orbital

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

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

Answer: A) Discharge plenum is at top

22. What is the reason for poor compression?

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

Answer: C) Scratches on the piston surface

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

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

Answer: B) Silent operation

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

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

Answer: D) Starting capacitor

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

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

Answer: A) Oil level is low