

Duration: 60 Mins

Total Marks: 25

ID: ITISKILL9535QU

Student Name: _____	Roll No: _____
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1. How the difference between the synchronous speed and the actual rotor speed is specified?

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

9. Which motor has the least starting torque?

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

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

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

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

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

12. Which motor has the least starting torque?

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

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

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

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

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

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

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

16. What is the revolving part of induction motor?

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

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

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

18. 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

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

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

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

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

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

- A) Main B) Series

- C) Running D) Starting

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

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

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

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

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

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

25. What is the reason for poor compression?

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