

ITI Quiz - 21-Apr-2026

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Q. ID: ITISKILL355085

April 2026

Question Paper

Duration: 30 Mins

Total Marks: 34

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Student Name: _____ Roll No: _____

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

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

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

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

- A) Nut and bolt
- B) Welded
- C) Screw
- D) End ring

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

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

4. Which motor has the least starting torque?

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

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

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

6. What is the reason for poor compression?

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

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

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

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

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

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

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

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

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

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

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

- A) Range
- B) Cut out
- C) Cut in
- D) Differential

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

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

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

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

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

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

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

- A) LP Vapour
- B) HP Liquid
- C) LP Liquid
- D) HP Vapour

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

- A) Air
- C) Oxygen

- B) Nitrogen
- D) Refrigerant

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

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

19. Which motor has the least starting torque?

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

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

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

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

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

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

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

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

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

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

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

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

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

26. Which part connects the piston with small end of

connecting rod in a reciprocating compressor?

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

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

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

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

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

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

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

30. Which is a positive displacement compressor?

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

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

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

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

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

33. What is the revolving part of induction motor?

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

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

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