

## ITI Quiz - 21-Apr-2026 03:16 PM

Q. ID: ITISKILL355085 | April 2026

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| Attempt No.  | #1               | Completion Time | 03:53 PM |
| Rank         | #3               | Total Questions | 34       |

20 SCORE

34 MAX MARKS

20 CORRECT

14 INCORRECT

### Answer Review

Q1 **CORRECT** Which part connects the piston with small end of connecting rod in a reciprocating compressor?

A. Piston pin ☒

B. Piston bolt ☐

C. Piston rings ☐

D. Piston sleeve ☐

Q2 **CORRECT** Which winding is made of thin wire in single phase motor?

A. Main ☐

B. Series ☐

C. Starting ☒

D. Running ☐

Q3 **CORRECT** What is the physical condition of refrigerant in hermetic dome of rotary compressor?

A. LP Liquid ☐

B. HP Liquid ☐

C. HP Vapour ☒

D. LP Vapour ☐

**Q4** **CORRECT** Which is a positive displacement compressor?

A. Centrifugal compressor

B. Scroll compressor ☒

C. Water pump

D. Oil pump

**Q5** **INCORRECT** Which instrument is used to identify the terminals of a compressor motor?

A. Ammeter

B. Voltmeter

C. Ohm meter ☒

D. Anemometer ☐

**Q6** **INCORRECT** Which motor has the least starting torque?

A. CSIR

B. CSR ☐

C. RSIR ☒

D. PSC

**Q7** **CORRECT** Which motor has the least starting torque?

A. CSIR

B. CSR

C. RSIR ☒

D. PSC

Q8 **CORRECT** Which winding is made of thick wire in single phase induction motor?

A. Starting

B. Running ☒

C. Auxiliary

D. Additional

Q9 **CORRECT** Which type of compressor is used for domestic refrigerator?

A. Semi sealed compressor

B. Centrifugal compressor

C. Hermetic compressor ☒

D. Open type compressor

Q10 **INCORRECT** What is the revolving part of induction motor?

A. Stator

B. Rotor ☒

C. Relay ☐

D. Winding

Q11 **INCORRECT** Which type of rotor is used in 3 Phase induction motor?

A. Squirrel cage rotor ☒

B. Shaded pole rotor

C. Laminated rotor ☐

D. Solid rotor

**Q12** **INCORRECT** What is the temperature set in thermostat that stops the compressor motor?

**A.** Cut in ☐

**B.** Range

**C.** Cut out ☐

**D.** Differential

**Q13** **CORRECT** Which lubricant oil is used in swash plate of R 134a compressor?

**A.** Servo 20

**B.** POE ☐

**C.** SAE - 40

**D.** Mineral oil

**Q14** **CORRECT** Which valve is closed during compression stroke in reciprocating compressor?

**A.** Service valve

**B.** Liquid line valve

**C.** Discharge valve

**D.** Suction valve ☐

**Q15** **CORRECT** Which gas is used for pressure testing the compressor dome?

**A.** Air

**B.** Oxygen

**C.** Nitrogen ☐

**D.** Refrigerant

**Q16** **CORRECT** 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

**Q17** **INCORRECT** 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

D. Adding resistance to rotor winding ☒

**Q18** **CORRECT** 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

**Q19** **INCORRECT** What is the use of a starting capacitor in single phase induction motor?

A. Improve power factor ☐

B. Increase starting torque ☒

C. Decrease starting torque

D. Dis connect starting winding

**Q20** **CORRECT** 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

**Q21** **INCORRECT** Which movement of the scroll compresses the low pressure vapour in scroll compressor?

**A.** Reciprocating

**B.** Centrifugal ☐

**C.** Rotating

**D.** Orbital ☐

**Q22** **INCORRECT** Which capacitor is disconnected by relay in capacitor start and induction run motor?

**A.** Starting capacitor ☐

**B.** Running capacitor

**C.** Boosting capacitor ☐

**D.** Power factor correction capacitor

**Q23** **CORRECT** What is the formula to find out the synchronous speed of induction motor?

**A.**  $N_s = (150P/f)$

**B.**  $N_s = (120f/P)$  ☐

**C.**  $N_s = (150f/P)$

**D.**  $N_s = (120P/f)$

**Q24** **INCORRECT** How to change the direction of rotation in 3 Phase induction motor?

A. Change neutral

B. Change all phase ☐

C. Change any two phase ☒

D. Change the winding only

**Q25** **INCORRECT** How the difference between the synchronous speed and the actual rotor speed is specified?

A. Lead

B. Lag

C. Slip ☒

D. Trip ☐

**Q26** **CORRECT** 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

**Q27** **CORRECT** 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

Q28 **CORRECT** 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

Q29 **CORRECT** Which is disconnected by centrifugal switch in RSIR motor?

- A. Running winding
- B. Common winding
- C. Starting winding ☒
- D. Running capacitor

Q30 **CORRECT** What is the reason for poor compression?

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

Q31 **INCORRECT** 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

**Q32** **INCORRECT** Why the top of dome is hot in a scroll compressor?

**A.** Discharge plenum is at top ☒

**B.** Suction super heat is less

**C.** Suction gas not cooled

**D.** Undercharged system ☐

**Q33** **INCORRECT** 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 ☒

**D.** Increase the life of compressor ☐

**Q34** **CORRECT** What is the cause for frequent tripping of circuit breaker while starting a single phase motor?

**A.** Winding open

**B.** Winding short ☒

**C.** Motor belt removed

**D.** No load on the motor