

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

Q. ID: ITISKILL355085 | April 2026

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| Student Name | Kaleel | Access Code     | 9590     |
| Attempt No.  | #1     | Completion Time | 03:52 PM |
| Rank         | #13    | Total Questions | 34       |

9 SCORE

34 MAX MARKS

9 CORRECT

25 INCORRECT

### Answer Review

Q1 **INCORRECT** 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 **INCORRECT** 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** **INCORRECT** 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** **INCORRECT** 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** **CORRECT** What is the temperature set in thermostat that stops the compressor motor?

A. Cut in

B. Range

C. Cut out ☒

D. Differential

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

A. Servo 20

B. POE ☒

C. SAE - 40 ☐

D. Mineral oil

**Q14** **INCORRECT** 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** **INCORRECT** 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** **INCORRECT** 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** **INCORRECT** 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** **INCORRECT** 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** **INCORRECT** 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 **INCORRECT** 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 **INCORRECT** Which is disconnected by centrifugal switch in RSIR motor?

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

Q30 **INCORRECT** 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** **CORRECT** 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** **CORRECT** 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