

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

Q. ID: ITISKILL355085 | April 2026

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|--------------|---------|-----------------|----------|
| Student Name | Maneesh | Access Code     | 1074     |
| Attempt No.  | #1      | Completion Time | 03:53 PM |
| Rank         | #12     | Total Questions | 34       |

10 SCORE

34 MAX MARKS

10 CORRECT

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

**A.** Starting ☐

**B.** Running ☒

**C.** Auxiliary ☐

**D.** Additional ☐

**Q9** **INCORRECT** 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** **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** **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** **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** **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 **CORRECT** 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** **CORRECT** 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** **INCORRECT** 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** **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