

Trinity ITI Udyavara

ITI Quiz - 02-Mar-2026 01:01 PM

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| Student Name | Mahammad rihan | Access Code | 0181 |
| Attempt No. | #1 | Completion Time | 01:36 PM |
| Rank | #5 | Total Questions | 25 |

19 SCORE

25 MAX MARKS

19 CORRECT

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

A. Ammeter

B. Voltmeter

C. Ohm meter

D. Anemometer

Q4 **INCORRECT** Which motor has the least starting torque?

A. CSIR

B. CSR

C. RSIR

D. PSC

Q5 **INCORRECT** Which motor has the least starting torque?

A. CSIR

B. CSR

C. RSIR

D. PSC

Q6 **CORRECT** Which winding is made of thick wire in single phase induction motor?

A. Starting

B. Running

C. Auxiliary

D. Additional

Q7 **CORRECT** Which type of compressor is used for domestic refrigerator?

A. Semi sealed compressor

B. Centrifugal compressor

C. Hermetic compressor

D. Open type compressor

Q8 **INCORRECT** What is the revolving part of induction motor?

A. Stator

B. Rotor

C. Relay

D. Winding

Q9 **CORRECT** 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

Q10 **CORRECT** Which lubricant oil is used in swash plate of R 134a compressor?

A. Servo 20

B. POE

C. SAE - 40

D. Mineral oil

Q11 **CORRECT** Which valve is closed during compression stroke in reciprocating compressor?

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

Q12 **INCORRECT** Which gas is used for pressure testing the compressor dome?

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

Q13 **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

Q14 **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

Q15 **CORRECT** Which movement of the scroll compresses the low pressure vapour in scroll compressor?

A. Reciprocating

B. Centrifugal

C. Rotating

D. Orbital

Q16 **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

Q17 **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. $N_s = (120P/f)$

Q18 **CORRECT** How the difference between the synchronous speed and the actual rotor speed is specified?

A. Lead

B. Lag

C. Slip

D. Trip

Q19 **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

Q20 **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

Q21 **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

Q22 **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

Q23 **CORRECT** 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

Q24 **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

Q25 **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