

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

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Student Name	Pavan H	Access Code	6580
Attempt No.	#1	Completion Time	03:45 PM
Rank	#7	Total Questions	34

13 SCORE

34 MAX MARKS

13 CORRECT

21 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 **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 **INCORRECT** 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 **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 **INCORRECT** 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 **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 **CORRECT** 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 **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 **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 **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