

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

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Student Name	Uthama	Access Code	7316
Attempt No.	#1	Completion Time	03:46 PM
Rank	#5	Total Questions	34

16 SCORE

34 MAX MARKS

16 CORRECT

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

A. Main ☐

B. Series ☐

C. Starting ☒

D. Running ☐

Q3 **INCORRECT** 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 **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 **INCORRECT** 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 **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 **CORRECT** 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 **CORRECT** 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 **CORRECT** 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 **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 **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 **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 **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

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 **INCORRECT** 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