

March 2026

GOVT ITI PERDOOR

Question Paper

Duration: 20 Mins

Total Marks: 25

ID: ITISKILL8878ND

Student Name: _____	Roll No: _____
---------------------	----------------

1. Which capacitor is disconnected by relay in capacitor start and induction run motor?

- A) Running capacitor B) Starting capacitor
C) Power factor correction capacitor D) Boosting capacitor

- A) Easily serviceable B) Cost is high
C) Noise is more D) Silent operation

2. What is the method of starting a 3 phase slip ring induction motor?

- A) Adding resistance to rotor winding B) With starting relay
C) With running capacitor D) Using starting capacitor

9. What is the revolving part of induction motor?

- A) Winding B) Relay
C) Stator D) Rotor

3. Where the refrigerant vapour is compressed in scroll compressor?

- A) Eccentric and cylinder B) Between fixed and orbiting scrolls
C) Fixed and reciprocating scroll D) Crank and connecting rod

10. Which is a positive displacement compressor?

- A) Scroll compressor B) Oil pump
C) Water pump D) Centrifugal compressor

4. What is the use of a starting capacitor in single phase induction motor?

- A) Decrease starting torque B) Increase starting torque
C) Dis connect starting winding D) Improve power factor

11. Which instrument is used to identify the terminals of a compressor motor?

- A) Anemometer B) Ohm meter
C) Voltmeter D) Ammeter

5. Which cooling medium is used to cool the motor of a hermetic reciprocating compressor in AC?

- A) Suction vapour B) Liquid refrigerant
C) Discharge vapour D) Water

12. Which lubricant oil is used in swash plate of R 134a compressor?

- A) Servo 20 B) POE
C) Mineral oil D) SAE - 40

6. Which part connects the piston with small end of connecting rod in a reciprocating compressor?

- A) Piston pin B) Piston sleeve
C) Piston rings D) Piston bolt

13. Which winding is made of thick wire in single phase induction motor?

- A) Additional B) Starting
C) Auxiliary D) Running

7. Which type of rotor is used in 3 Phase induction motor?

- A) Shaded pole rotor B) Squirrel cage rotor
C) Solid rotor D) Laminated rotor

14. Which valve is closed during compression stroke in reciprocating compressor?

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

8. What is the advantage of a hermetically sealed compressor in refrigerator?

15. How to change the direction of rotation in 3 Phase induction motor?

- A) Change all phase B) Change any two phase
C) Change neutral D) Change the winding only

16. Which is disconnected by centrifugal switch is RSIR motor?

- A) Starting winding B) Common winding
C) Running winding D) Running capacitor

17. What is the temperature set in thermostat that stops the compressor motor?

- A) Cut out
- B) Differential
- C) Range
- D) Cut in

18. Which type of compressor is used for domestic refrigerator?

- A) Open type compressor
- B) Hermetic compressor
- C) Centrifugal compressor
- D) Semi sealed compressor

19. Which movement of the scroll compresses the low pressure vapour in scroll compressor?

- A) Reciprocating
- B) Rotating
- C) Centrifugal
- D) Orbital

20. What is the use of suction baffle in a scroll compressor?

- A) Allow liquid to enter into compressor
- B) Reduce capacity of compressor
- C) Increase noise of compressor
- D) Reduce noise of compressor

21. What is the reason for poor compression?

- A) Scratches on the piston surface
- B) Good lubrication on the moving parts

C) Lapped valve plate and reed seat

D) Less clearance volume

22. Which motor has the least starting torque?

- A) RSIR
- B) CSIR
- C) PSC
- D) CSR

23. Which gas is used for pressure testing the compressor dome?

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

24. Which winding is made of thin wire in single phase motor?

- A) Starting
- B) Main
- C) Running
- D) Series

25. What is the use of capacitor in PSC operated induction motor?

- A) Decrease the starting torque
- B) Cancel the starting torque
- C) Decrease the power factor
- D) Improve the power factor