

August 2026

Govt iti udupi

Question Paper

Duration: 30 Mins

Total Marks: 25

ID: ITISKILL5674GH

Student Name: \_\_\_\_\_

Roll No: \_\_\_\_\_

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

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

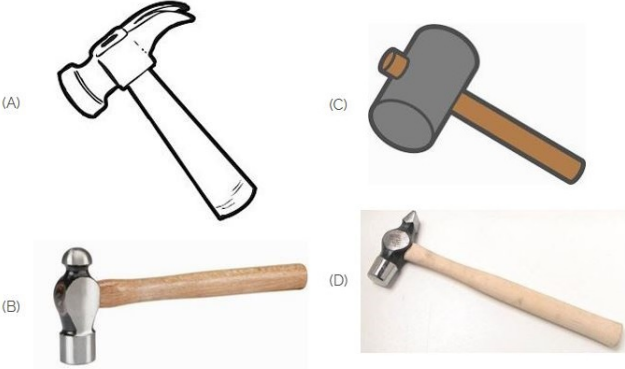
2. How the difference between the synchronous speed and the actual rotor speed is specified?

- A) Slip                              B) Lead  
C) Lag                              D) Trip

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

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

4. Which is ball peen hammer? | ಬಾಲ್ ಪೀನ್ ಸುತ್ತಿಗೆ ಯಾವುದು?



- A) D                              B) B  
C) C                              D) A

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

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

6. What is the centre of gravity of a rectangular body?

- A) Longer side of rectangle      B) Shorter side of rectangle  
C) At the corners                      D) At the point of intersection of its diagonals

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

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

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

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

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

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

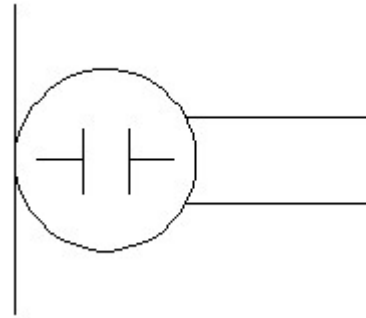
10. What is the reason for poor compression?

- A) Lapped valve plate and reed seat      B) Less clearance volume  
C) Scratches on the piston surface      D) Good lubrication on the moving parts

11. What is the formula to find out the synchronous speed of induction motor?

- A)  $N_s = (150f/P)$                       B)  $N_s = (120f/P)$   
C)  $N_s = (120P/f)$                       D)  $N_s = (150P/f)$

12. What is the name of the symbol? | ಚಿಹ್ನೆಯ ಹೆಸರೇನು?



- A) Microphone | ಮೈಕ್ರೋಫೋನ್      B) Dynamic microphone | ಡೈನಾಮಿಕ್ ಮೈಕ್ರೋಫೋನ್  
C) Condenser microphone | ಕಾಂಡೆನ್ಸರ್ ಮೈಕ್ರೋಫೋನ್      D) Loud speaker | ಲೌಡ್ ಸ್ಪೀಕರ್

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

- A) Liquid line valve  
C) Discharge valve

- B) Service valve  
D) Suction valve

- A) D  
C) B

- B) A  
D) C

14. Which state of equilibrium's example is A cone resting on its tip?

- A) Unstable  
C) Horizontal  
B) Stable  
D) Neutral

15. What is the name of the point at which all the weight of the body concentrated?

- A) Initial point  
C) Central point  
B) Centre of gravity  
D) Centroid

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

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

17. Identify the given symbol | ನೀಡಿರುವ ಚಿಹ್ನೆಯನ್ನು ಗುರುತಿಸಿ

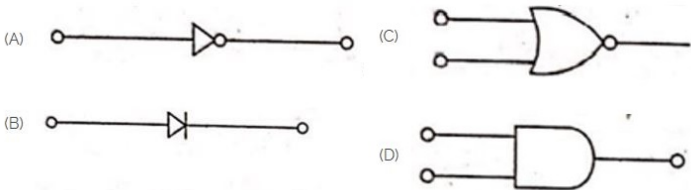


- A) Ohms | ಓಮ್ಸ್  
C) DC  
B) Inductance | ಇಂಡಕ್ಟೆನ್ಸ್  
D) AC

18. Which motor has the least starting torque?

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

19. Which is the NOT gate in the following picture? | ಕೆಳಗಿನ ಚಿತ್ರದಲ್ಲಿ NOT ಗೇಟ್ ಯಾವುದು?



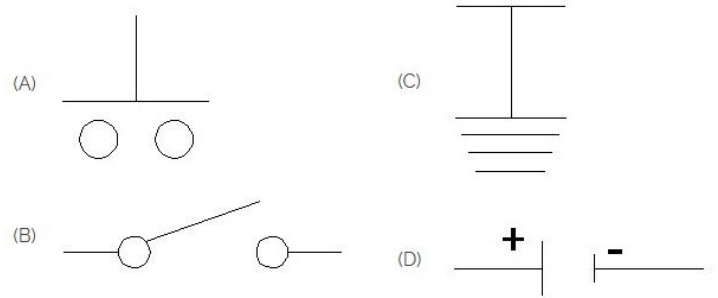
20. Which affects the centre of gravity of the object

- A) Density  
C) Weight  
B) Mass  
D) Shape

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

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

22. Which is the symbol of earth? | ಭೂಮಿಯ ಸಂಕೇತ ಯಾವುದು?



- A) A  
C) B  
B) C  
D) D

23. Which motor has the least starting torque?

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

24. Which is used to connect the rotor bars in 3phase squirrel cage induction motor?

- A) Nut and bolt  
C) Welded  
B) End ring  
D) Screw

25. Which one of the following geometrical shape's centre of gravity lies from its base is 1/3 of its height?

- A) Square  
C) Cone  
B) Triangle  
D) Rhombus