

RACT 2025-27 1ST YEAR APRIL MONTHLY TEST 2026

Q. ID: ITISKILL56782N

April 2026

Govt iti udupi

Question Paper

Duration: 30 Mins

Total Marks: 25

ID: ITISKILL56782N

Student Name: _____ Roll No: _____

1. What is the purpose of relay used in window air conditioner?

- A) Disconnect the winding
B) Disconnect the running capacitor
C) Disconnect the starting capacitor
D) Disconnect the fan capacitor

2. What is the diameter of the semicircle, if the circumference of the semicircle is 21.98 cm?

- A) 7 cm
B) 8.55 cm
C) 8 cm
D) 7.55 cm

3. What is the remedy for the defective OLP in a window air conditioner?

- A) Remove the parts
B) Replace the OLP
C) Repair the heater element
D) Repair the OLP

4. What is the reason for the compressor does not start but the fan motor works normally in window AC?

- A) Defective compressor motor
B) Defective fan capacitor
C) Defective fan motor
D) Defective blower

5. What is the cause of reduced supply air throw though air filter is clean in window AC?

- A) Frost accumulated in the evaporator
B) No frost in the evaporator
C) No dust accumulated in the evaporator
D) Dust accumulated in the condenser

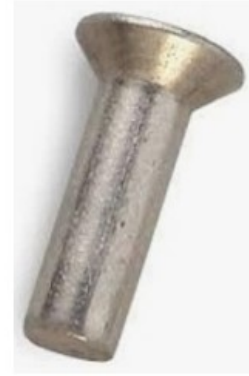
6. Which stabilizer capacity is used for 1 Ton window air conditioner?

- A) 5 KVA
B) 2 KVA
C) 3 KVA
D) 4 KVA

7. Which device is used to start and stop a motor? | ಮೋಟಾರ್ ಅನ್ನು ಪ್ರಾರಂಭಿಸಲು ಮತ್ತು ನಿಲ್ಲಿಸಲು ಯಾವ ಸಾಧನವನ್ನು ಬಳಸಲಾಗುತ್ತದೆ?

- A) Starter | ಸ್ಟಾರ್ಟರ್
B) Rotor | ರೋಟರ್
C) Stator | ಸ್ಟೇಟರ್
D) Slip ring | ಸ್ಲಿಪ್ ರಿಂಗ್

8. The rivet head for a general purpose shown in the figure below is ____ | ಕೆಳಗಿನ ಚಿತ್ರದಲ್ಲಿ ತೋರಿಸಿರುವ ಸಾಮಾನ್ಯ ಉದ್ದೇಶಕ್ಕಾಗಿ ರಿವೆಟ್ ಹೆಡ್:



- A) flat | ಫ್ಲಾಟ್
B) pan | ಪ್ಯಾನ್
C) counter sunk | ಕೌಂಟರ್ ಸುಂಕ್
D) snap | ಸ್ನಾಪ್

9. Which is indicated by the arrow mark on filter drier component?

- A) Position of capillary tube
B) Flow direction of air
C) Arrangement of desiccant and filter
D) Flow direction of refrigerant

10. Which type of condenser is used in window air conditioner?

- A) Plate and tube
B) Bare tube
C) Plate and coil
D) Fins and tube

11. How the years is denoted in simple interest calculations?

- A) n
B) r
C) I
D) P

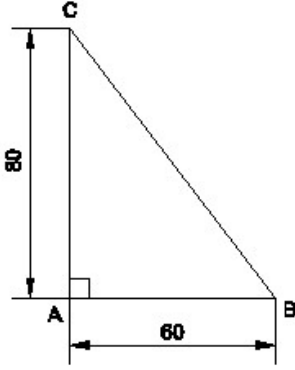
12. What is the value of starting capacitor used for 1TR window air conditioner?

- A) 60 MFD
B) 40 MFD
C) 80 MFD
D) 100 MFD

13. What is the reason for excessive frost on evaporator coil in window AC?

- A) Air filter blocked completely
 B) Evaporator fins not blocked by dust
 C) More air circulation in evaporator
 D) Blower rotating at higher speed

14. Identify the name of the triangle? | ತ್ರಿಕೋನದ ಹೆಸರನ್ನು ಗುರುತಿಸುವುದೇ?



- A) Right angle triangle | ಬಲ ಕೋನ ತ್ರಿಕೋನ
 B) Isosceles triangle | ಸಮದ್ವಿಬಾಹು ತ್ರಿಕೋನ
 C) Equilateral triangle | ಸಮಕೋನ ತ್ರಿಕೋನ
 D) Scalene triangle | ಸ್ಕೇಲಿನ್ ತ್ರಿಕೋನ

15. Which material is used for making fins of condenser in a window air conditioner?

- A) Cast iron
 B) Brass
 C) Aluminium
 D) Copper

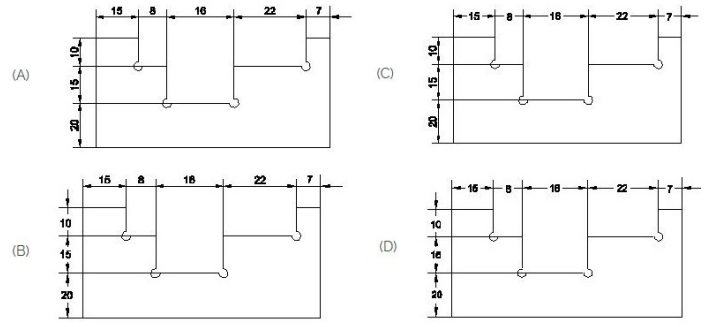
16. Which force acts on rivets?

- A) Tensile force
 B) Bending force
 C) Compressive force
 D) Shear force

17. What is the work done in joules if a load of 15.5 kg is lifted through a height of 4.4 metres?

- A) 669 Joules
 B) 639 Joules
 C) 659 Joules
 D) 649 Joules

18. Identify the correct aligned system dimension? | ಸರಿಯಾದ ಜೋಡಿಸಲಾದ ಸಿಸ್ಟಮ್ ಆಯಾಮವನ್ನು ಗುರುತಿಸುವುದೇ?



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

19. What is the value of running capacitor used for 1.5 TR window air conditioner?

- A) 100 MFD
 B) 40 MFD
 C) 36 MFD
 D) 80 MFD

20. GMAW stands for _____ | GMAW ಎಂದರೆ _____

- A) Gun Metal Arc Welding
 B) Gas Metal Arc Welding
 C) Gas Tungsten Arc Welding
 D) Germanium Metal Arc Welding

21. Which winding has high inductance value in CSR compressor motor?

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

22. How to neutralise the concentration of leaked ammonia from air

- A) Spray Hydrochloric acid
 B) Recover ammonia from air
 C) Spraying a lot of water
 D) Shut down the plant

23. Where the relay coil is internally connected in voltage relay?

- A) Across 1 and 2
 B) Across 2 and 4
 C) Across 5 and 1
 D) Across 5 and 2

24. Which type of evaporator is used in window air conditioner?

- A) Bare tube
 B) Fins and plate
 C) Plate and tube
 D) Fins and tube

25. How many millimetres are there in 1 inch?

- A) 2.54 mm
 B) 2.45 mm
 C) 25.4 mm
 D) 24.5 mm