

RACT 2025-27 1ST YEAR APRIL MONTHLY TEST 2026

Q. ID: ITISKILL56782N

April 2026

Govt iti udupi

Answer Key

Duration: 30 Mins

Total Marks: 25

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

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

Answer: C) 80 MFD

2. Which force acts on rivets?

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

Answer: A) Shear force

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

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

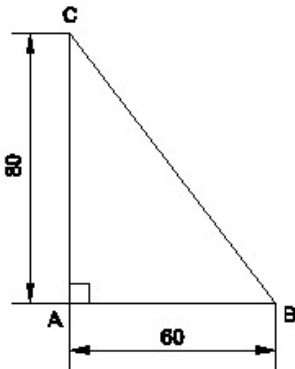
Answer: B) Air filter blocked completely

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

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

Answer: B) Frost accumulated in the evaporator

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



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

Answer: D) Right angle triangle | ಬಲ ಕೋನ ತ್ರಿಕೋನ

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

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

Answer: C) Across 5 and 2

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

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

Answer: C) Flow direction of refrigerant

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

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

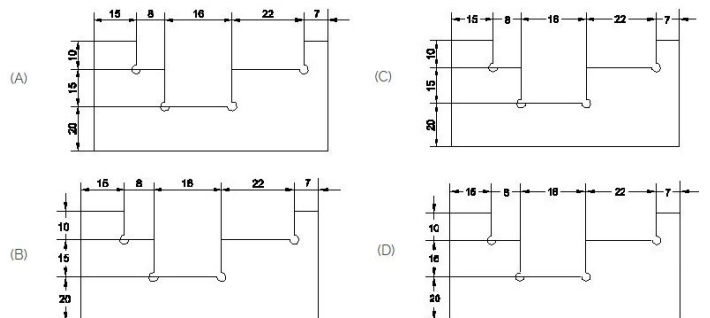
Answer: D) Spraying a lot of water

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

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

Answer: B) Disconnect the starting capacitor

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



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

Answer: B) A

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



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

Answer: B) counter sunk | ಕೌಂಟರ್ ಸುಂಕ್

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

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

Answer: A) Fins and tube

13. GMAW stands for ____ | GMAW ಎಂದರೆ _____

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

Answer: C) Gas Metal Arc Welding

14. How many millimetres are there in 1 inch?

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

Answer: C) 25.4 mm

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

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

Answer: C) Aluminium

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

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

Answer: B) 669 Joules

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

ಬಳಸಲಾಗುತ್ತದೆ?

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

Answer: D) Starter | ಸ್ಟಾರ್ಟರ್

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

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

Answer: B) Replace the OLP

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

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

Answer: B) Running winding

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

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

Answer: B) 8.55 cm

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

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

Answer: C) Fins and tube

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

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

Answer: A) 3 KVA

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

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

Answer: A) n

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

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

Answer: D) 36 MFD

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

- A) Defective fan motor
B) Defective fan capacitor

C) Defective blower

D) Defective compressor
motor

Answer: D) Defective compressor motor
