

June 2026

Answer Key

Duration: 30 Mins

Total Marks: 40

Q.ID: ITISKILL76607U

1. Which is increased by the fins of condenser tubes in window air conditioner?

- A) Power consumption B) Discharge pressure
C) Heat transfer rate D) Refrigerant flow rate

Answer: C) Heat transfer rate

2. Which device is used to exhaust the room air in window AC?

- A) Air filter B) Damper
C) Air washer D) Filter drier

Answer: B) Damper

3. Which capacity of fan motor is used in 1Ton window air conditioner?

- A) 1/16 HP B) 1/5 HP
C) 1/10 HP D) 1/20 HP

Answer: A) 1/16 HP

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

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

Answer: C) Fins and tube

5. What is the capacity of compressor motor used in 1Ton window air conditioner?

- A) 0.75 HP B) 0.95 HP
C) 1.00 HP D) 0.50 HP

Answer: A) 0.75 HP

6. Which type of compressor is used in window air conditioner?

- A) Swash plate B) Belt drive
C) Sealed type D) Open type

Answer: C) Sealed type

7. What is the reason for the compressor motor burn out in a window air conditioner?

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

Answer: D) Defective OLP

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

- A) Running winding B) Common winding

C) Starting winding

D) Auxiliary winding

Answer: A) Running winding

9. Which relay is used in capacitor start, capacitor run (CSR) compressor motor?

- A) Current relay B) Voltage relay
C) Thermal relay D) Amperage relay

Answer: B) Voltage relay

10. What is the effect of sensing higher temperature by thermistor NTC?

- A) Resistance increases B) Resistance becomes zero
C) Resistance decreases D) Resistance becomes infinity

Answer: C) Resistance decreases

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

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

Answer: B) Flow direction of refrigerant

12. 1 Which control device is used to maintain the room air temperature?

- A) Relay B) Selector switch
C) OLP D) Thermostat

Answer: D) Thermostat

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

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

Answer: A) Air filter blocked completely

14. What is the reason for Compressor does not start ?

- A) Defective fan motor B) Defective fresh air damper
C) Defective OLP D) Defective oscillation motor

Answer: C) Defective OLP

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

- A) Repair the OLP B) Remove the parts

C) Repair the heater element D) Replace the OLP

Answer: D) Replace the OLP

16. Which safety device is used for compressor motor in window air conditioner?

- A) Over load protector B) Running capacitor
C) Starting capacitor D) Relay

Answer: A) Over load protector

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

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

Answer: A) Aluminium

18. Which type of fan motor is used in window air conditioner?

- A) Three phase double end shaft motor B) Three phase single shaft motor
C) Single phase double end shaft motor D) Single phase single shaft motor

Answer: C) Single phase double end shaft motor

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

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

Answer: B) Across 5 and 2

20. 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 dust accumulated in the evaporator
C) Dust accumulated in the condenser D) No frost in the evaporator

Answer: A) Frost accumulated in the evaporator

21. What is the area of room cooled by 1ton window air conditioner?

- A) 1000 sq.ft B) 3000 sq.ft
C) 2000 sq.ft D) 5000 sq.ft

Answer: A) 1000 sq.ft

22. Where the filter drier is installed in window AC refrigerant circuit?

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

Answer: D) Liquid line

23. 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

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

- A) 150 to 160 MFD B) 40 to 60 MFD
C) 80 to 100 MFD D) 130 to 150 MFD

Answer: C) 80 to 100 MFD

25. What is the remedy to remove moisture from the window AC system?

- A) Clean the evaporator fins B) Clean the condenser fins
C) Evacuate the system deeply D) Over gas charge in the system

Answer: C) Evacuate the system deeply

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

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

Answer: C) Defective compressor motor

27. What is the reason for Very high condenser temperature in a window air conditioner?

- A) Fan motor working in good condition B) Water splashes condenser
C) More air flows into the condenser D) Dust accumulated in the condenser fins

Answer: D) Dust accumulated in the condenser fins

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

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

Answer: B) Fins and tube

29. Where the normally closed contacts are internally connected in voltage relay?

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

Answer: D) Across 1 and 2

30. What is the purpose of operating the fan motor first and then the compressor motor in Air conditioners?

- A) Cool the coils first by fan B) Cool the compressor by fan
C) Minimise the noise of motors D) Stop the high starting current by both motors

Answer: D) Stop the high starting current by both motors

31. Which type of expansion valve is used in window air conditioner?

- A) Capillary tube
C) Thermostatic expansion valve
- B) Low side float valve
D) Automatic expansion valve

Answer: A) Capillary tube

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

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

Answer: D) 3 KVA

33. What is the cooling capacity of 0.5 TR in BTU / hr?

- A) 24000
C) 6000
- B) 18000
D) 12000

Answer: C) 6000

34. Which capacitor is connected in series with starting winding of CSR motor during operation?

- A) No capacitor is connected
C) Fan capacitor
- B) Start capacitor
D) Run capacitor

Answer: D) Run capacitor

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

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

Answer: A) 36 MFD

36. Which winding of compressor motor is directly connected

across voltage relay coil?

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

Answer: C) Starting winding

37. What is the cooling capacity of 1 TR in K Cal / hr?

- A) 6000
C) 3000
- B) 5000
D) 4000

Answer: C) 3000

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

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

Answer: C) 80 MFD

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

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

Answer: D) Disconnect the starting capacitor

40. Which part of window AC removes dust particles from the room air?

- A) Dehydrator
C) Filter drier
- B) Air filter
D) Strainer

Answer: B) Air filter