

June 2026

Question Paper

Duration: 30 Mins

Total Marks: 40

ID: ITISKILL76607U

Student Name: _____

Roll No: _____

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

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

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

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

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

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

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

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

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

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

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

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

7. 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

8. 1 Which control device is used to maintain the room air temperature?

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

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

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

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

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

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

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

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

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

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

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

14. 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) 130 to 150 MFD D) 80 to 100 MFD

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

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

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

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

17. 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 single shaft motor | D) Single phase double end shaft motor |

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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|-------------------------------|------------------------------|
| A) Evacuate the system deeply | B) Clean the evaporator fins |
|-------------------------------|------------------------------|

- C) Clean the condenser fins D) Over gas charge in the system

36. 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

37. Which winding of compressor motor is directly connected across voltage relay coil?

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

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

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

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

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

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

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