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Score: 23/40 (57.50%)

Code: 9776

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

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

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

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

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

- A) 3000 (Correct)**
B) 4000
C) 5000
D) 6000

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

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

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

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

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

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

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

- A) 6000 (Correct)**
B) 12000
C) 18000
D) 24000

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

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

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

- A) Voltage relay (Correct)**
B) Current relay
C) Thermal relay
D) Amperage relay

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

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

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

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

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

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

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

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

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

- A) 36 MFD (Correct)**
B) 40 MFD
C) 80 MFD
D) 100 MFD

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

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

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

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

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

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

18. 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 (Correct) |

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

- | | |
|---------------------------------------|---|
| A) Three phase single shaft motor | <u>B) Single phase single shaft motor (Incorrect)</u> |
| C) Three phase double end shaft motor | D) Single phase double end shaft motor |

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

- | | |
|--------------------|--------------------------------------|
| A) Main winding | B) Starting winding (Correct) |
| C) Running winding | D) Auxiliary winding |

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

- | | |
|--------------------------|--------------------------------------|
| A) Across 1 and 5 | <u>B) Across 2 and 5 (Incorrect)</u> |
| C) Across 1 and 2 | D) Across 2 and 4 |

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

- | | |
|---|--|
| <u>A) Flow direction of air (Incorrect)</u> | B) Position of capillary tube |
| C) Flow direction of refrigerant | D) Arrangement of desiccant and filter |

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

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

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

- | | |
|------------|-------------------------------|
| A) 0.50 HP | B) 0.75 HP |
| C) 0.95 HP | <u>D) 1.00 HP (Incorrect)</u> |

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

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

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

- | | |
|------------------------------------|-----------------------|
| A) Discharge line | B) Suction line |
| <u>C) Service line (Incorrect)</u> | D) Liquid line |

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

- | | |
|--|---------------------------|
| A) Common winding | B) Running winding |
| <u>C) Starting winding (Incorrect)</u> | D) Auxiliary winding |

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

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

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

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|------------------------------------|-------------------------|
| <u>A) 40 to 60 MFD (Incorrect)</u> | B) 80 to 100 MFD |
| C) 130 to 150 MFD | D) 150 to 160 MFD |

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

- | | |
|-----------------------------|-----------------|
| <u>A) 2 KVA (Incorrect)</u> | B) 3 KVA |
| C) 4 KVA | D) 5 KVA |

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

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

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

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

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

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

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

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

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

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

36. What is the remedy for the defective OLP in a window air

conditioner?

A) Repair the OLP

C) Remove the parts
(Incorrect)

B) Replace the OLP

D) Repair the heater element

37. 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 motor

C) Defective fan capacitor
(Incorrect)

D) Defective compressor motor

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

A) Over gas charge in the system

B) Evacuate the system deeply (Correct)

C) Clean the evaporator fins D) Clean the condenser fins

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

A) No frost in the evaporator

B) Frost accumulated in the evaporator

C) Dust accumulated in the condenser

D) No dust accumulated in the evaporator (Incorrect)

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

A) Resistance increases
(Incorrect)

B) Resistance decreases

C) Resistance becomes zero

D) Resistance becomes infinity