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Score: 23/40 (57.50%)

Code: 4404

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 (Correct)** B) Plate and tube
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 (Incorrect)
C) Fins and plate **D) Fins and tube**

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

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

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

- A) 6000** B) 12000 (Incorrect)
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** B) Current relay
C) Thermal relay (Incorrect) 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**
C) Filter drier (Incorrect) 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** B) 40 MFD
C) 80 MFD D) 100 MFD (Incorrect)

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 (Correct)** B) Disconnect the running capacitor
C) Disconnect the fan capacitor D) Disconnect the winding capacitor

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

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

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?

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

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

- | | |
|---------------------------------------|----------------------------|
| A) Main winding | B) Starting winding |
| <u>C) Running winding (Incorrect)</u> | 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?

- | | |
|---|--|
| A) Flow direction of air | B) Position of capillary tube |
| C) Flow direction of refrigerant (Correct) | 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?

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

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

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|------------------|----------------------------------|
| A) Damper | <u>B) Air filter (Incorrect)</u> |
| C) Filter drier | D) Air washer |

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

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

27. Which winding has high inductance value in CSR

compressor motor?

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

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

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|--------------------------------------|-------------------|
| <u>A) Across 1 and 2 (Incorrect)</u> | B) Across 5 and 1 |
| C) Across 5 and 2 | 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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|-------------------|--------------------------------------|
| A) 40 to 60 MFD | B) 80 to 100 MFD |
| C) 130 to 150 MFD | <u>D) 150 to 160 MFD (Incorrect)</u> |

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

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

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

- | | |
|--|-----------------------------------|
| <u>A) Recover ammonia from air (Incorrect)</u> | B) Spraying a lot of water |
| 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 (Incorrect) **B) Replace the OLP**
C) Remove the parts 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 **D) Defective compressor motor (Correct)**

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 (Correct)**
C) Dust accumulated in the condenser D) No dust accumulated in the evaporator

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

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