

Refrigeration/ Air-conditioning/ Ventilation Mechanic (Electrical Control) Trade Test Written Test Mock Paper

(Version : EAE-WM-EN-01)



此文件關於空調製冷設備技工(電力控制)技能測試(大工)技術知識測試(筆試)模擬試題。
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1. According to Electricity Supply Rules, if the power output of a three-phase motor is 1.5 kW to 3.8 kW, the maximum starting current should be ___ times of the full load current.
 - a. 6
 - b. 8
 - c. 3
 - d. 5
2. When the pipe in the refrigerant system of upright air conditioner is jammed, which of the following controllers will cut off the power of compressor?
 - a. Low voltage controller
 - b. High voltage controller
 - c. Thermostat
 - d. Overload relay
3. Fuse breaker can only be installed:
 - a. In live wire
 - b. In neutral wire
 - c. In protective wire
 - d. In circuit wire
4. Single phase motor starter capacitor is:
 - a. In series with running wire coil
 - b. In parallel with running wire coil
 - c. In parallel with starting wire coil
 - d. In series with starting wire coil
5. What is the power consumption, in unit(s) electricity, of a 1kW electricity apparatus when working for an hour?
 - a. 1
 - b. 10
 - c. 100
 - d. 1,000
6. What is the resistance setting of the multimeter (ohm, Ω) when connecting with the casing of the electrical appliance?
 - a. As high as possible
 - b. 50-100
 - c. 100-200
 - d. As little as possible
7. What is the function of “Star” (Y- Δ) of the starter control for motor?
 - a. To reduce starting current
 - b. To increase starting force-arm
 - c. To increase starting current
 - d. To increase starting power
8. The circuit of oil heater for compressor is:
 - a. Closed when in emergency
 - b. Closed at anytime
 - c. Closed when start running
 - d. Closed when stop running

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9. In Chiller Plant, anti-freezing switch should be installed at the:
- Chilled water outlet of the Chiller Plant
 - Chilled water entrance of the Chiller Plant
 - Chilled water pump entrance
 - Chilled water pump outlet
10. The operating sequence of water cooled package unit should be:
- Condenser Pump
 - Cooling Tower
 - Fan
 - Compressor
- 4-2-3-1
 - 3-4-2-1
 - 4-3-2-1
 - 3-1-2-4
11. During activation of a three-phase motor, there is no rotation but humming sound. What is the cause?
- Single-phase short circuit
 - Two-phases short circuit
 - Three-phases short circuit
 - No power
12. Under what circumstances does an overload relay protect the compressor?
- Overvoltage
 - The high pressure is too high
 - The oil pressure is too high
 - Overcurrent
13. Water Flow Switch is to protect:
- Compressor
 - Air cooler
 - Cooling water pump
 - Water tower
14. In case of short circuit of the motor coil of compressor, its:
- Starting current decreases
 - Resistance increases
 - Running current decreases
 - Running current increases

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15. To measure voltage by Volt Meter, the connection relationship of Loading and Volt Meter is:
- Any connection
 - In series and parallel
 - In series
 - In parallel
16. In the protected circuit of the compressor of chiller, which of the following three protective components are connected?
- Oil pressure differential controller, dual pressure controller, cold water return temperature switch
 - Overload protector, Dual pressure controller, cold water return temperature switch
 - Dual pressure controller, Overload protector, cold water return temperature switch
 - Overload protector, oil pressure differential controller, dual pressure controller
17. What is the minimum amount of "interest" as stated in Prevention of Bribery Ordinance?
- \$100
 - \$200
 - \$500
 - No limited amount
18. A person should be serious at work and should uphold work ethics, including:
- Appropriation of other's property
 - Craving for personal interest and neglecting the damages dealt to others
 - Accepting money and other advantages
 - Integrity, be honest and responsible, keep moral principles. Never corrupt and accept illegal advantage.
19. When lifting heavy objects, which of the following methods is correct?
- Correct posture should be used. Workers should remain upright in their back.
 - Ask for a heavier load each time to hasten the process
 - Throw the object to higher places to strengthen the body
 - Hasten the speed of work suddenly
20. What may happen if working under hot and humid environments for a long period?
- Heat stroke
 - Temporary blindness
 - Hunger
 - Anaemia

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