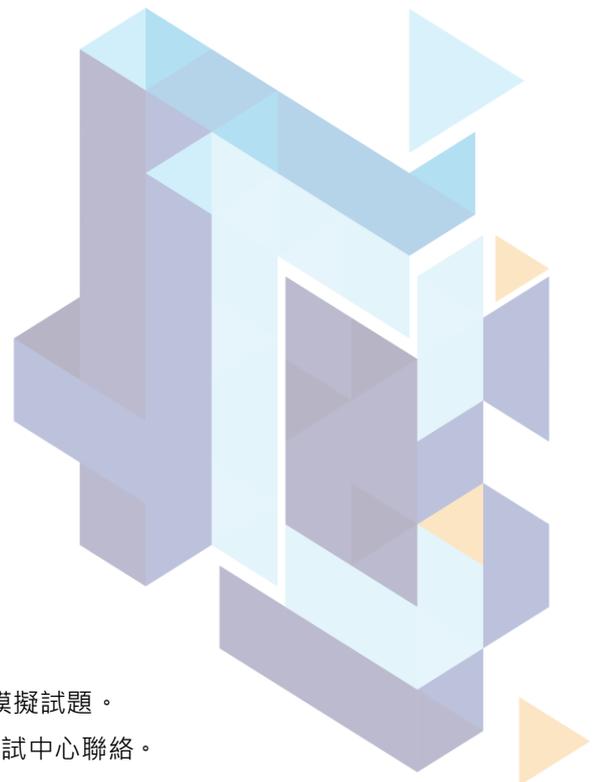


Control Panel Assembler Trade Test Written Test Mock Paper

(Version : EEP-WM-EN-01)



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Enquiries

Enquiries on this material may be made to Hong Kong Construction Industry Trade Testing Centre (HKCITTC) at:

Address: 95 Yue Kwong Road, Aberdeen, Hong Kong

Tel: (852) 2100 9000

Fax: (852) 2100 9090

Email: hkcittc@cic.hk

Website: www.cic.hk

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1. Which of the following fits the definition of extra-low voltage in the Factories and Industrial Undertakings (Electricity) Regulations?
 - a. The voltage between individual conductors does not exceed 120V direct current
 - b. The voltage between individual conductors does not exceed 1,200V direct current
 - c. The voltage between individual conductors exceeds 120V direct current
 - d. Power comes from batteries
2. Why can't a fuse be installed on the secondary side of the current transformer?
 - a. When the fuse has been blown, the secondary winding will produce dangerous voltage
 - b. It is often used in a separate partition in the switch cubicle and hence there is not enough space
 - c. When the current is too high, fuse can restrict current which cause secondary current inaccurate
 - d. Since the internal resistance in the fuse is quite high, installing it will reduce the burden
3. The size of a screwdriver is based on:
 - a. The length of the shank
 - b. The length of the handle
 - c. The diameter of the handle
 - d. The total length of the entire screwdriver
4. The range for an electro probe is:
 - a. 500 – 1,000V
 - b. 24 – 50V
 - c. 3 – 24V
 - d. 100 – 500V
5. According to Electricity Supply Rules, single phase motor which is connected to earthing system can be activated with direct-on-line starter in case of less than _____ kW.
 - a. 11
 - b. 3.8
 - c. 1.5
 - d. 2.2
6. To measure voltage by Volt Meter, the connection relationship of Loading and Volt Meter should be:
 - a. Any connection
 - b. In series and parallel
 - c. In series
 - d. In parallel

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Control Panel Assembler Trade Test Written Test Mock Paper (Con't)

7. Normal Open (N.O.) contact for electric relay is:
 - a. Open when electric relay cut-off of power
 - b. Open at all time
 - c. Open when electric relay with power input
 - d. Close at all time
8. Which of the following has the lowest resistance at the connection point of a motor?
 - a. All electrical resistance are the same
 - b. Running (R) and Common (C)
 - c. Starting (S) and Running (R)
 - d. Starting (S) and Common (C)
9. Provided that the power sequence of a three-phase motor is L1 – L2 – L3, in order to change the running direction, the sequence of wiring should be:
 - a. L2 – L1 – L3
 - b. L1 – L2 – L3
 - c. L2 – L3 – L1
 - d. L3 – L1 – L2
10. In a star delta starter with high power, what protective equipment should be installed between the star and delta magnetic contactors?
 - a. Electric and mechanical interlocks
 - b. Synchro
 - c. Sequencing selector
 - d. Automatic sequencing selector
11. In addition to overload relay, why is fuse also necessary in the controlled circuit of motor?
 - a. The time/ current characteristics of the overload relay are very poor, and a fuse is required to coordinate and differentiate operation
 - b. Overload relay is to provide overcurrent protection and fuse is to provide low-voltage protection
 - c. The stability of overload relay is low, therefore a fuse is required as a back-up
 - d. Overload relay prevents device from overloading and fuse provides short-circuit protection
12. Concerning the internal winding, the function of the star delta starter of three-phase induction motor is:
 - a. Increase the starting voltage, so as to increase the starting current and reduce voltage dip
 - b. Reduce the starting voltage, so as to increase the starting current and starting torque
 - c. Increase the starting voltage, so as to reduce the starting current and amplify the starting torque
 - d. Lower the starting voltage, so as to reduce the starting current and voltage dip

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Control Panel Assembler Trade Test Written Test Mock Paper (Con't)

13. If the full load current of a three-phase induction motor is 10 amperes (A), how much ampere(s) (A) should be set for the overload relay of the phase current?
- 2
 - 6
 - 10
 - 17
14. If a three-phase four-pole induction motor is connected to a 50Hz power supply, the synchronous speed should be:
- 3,600 rpm
 - 3,000 rpm
 - 1,800 rpm
 - 1,500 rpm
15. Which of the following motor starters is activated with full voltage?
- Direct online starter
 - Star starter
 - Autotransformer starter
 - Static state starter
16. For most star delta starter of three-phase induction motor, what would happen if the time setting of starting is too long?
- The motor will be overloaded
 - The torque after activating the motor is insufficient
 - The starting current of motor is very high
 - The starting torque of motor will be insufficient
17. What is the minimum amount of "advantage" 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.

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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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