

## Electrician

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- The equivalent binary number to the decimal number '6' is
  - 0110
  - 0101
  - 0010
  - 0011
- What does the term 'normally open contacts' mean?
  - It means that the contacts are open a circuit.
  - It means that the contacts are open at all times.
  - It means that the contacts are open when the relay is energized.
  - It means that the contacts are open when the relay is de-energized.
- What type of drill does not require a cord with a ground connection?
  - Die cast.
  - Resistance coated.
  - Low voltage.
  - Double insulated.
- What is the minimum size of single-conductor aluminum-sheathed cable that can be used for a consumer's service? (Refer Rule 6-304)
  - #6 awg
  - #3 awg
  - #5 awg
  - #4 awg
- A synchronous motor has an excitation voltage of 125 volts with a maximum rotor current of 10 amperes. What is the resistance of the motor?
  - 13.4 ohms
  - 11.5 ohms
  - 10.1 ohms
  - 12.5 ohms
- What is the current on the neutral conductor of a three-wire, 120/240 V circuit that carries 1200 W on phase A and 6000 W on phase B?
  - 25A
  - 30A
  - 10A
  - 40A
- The correct way of soldering the resistor's leads etc. is :
  - heat up the solder and apply the molten solder to the joint
  - apply solder before heating
  - heat up the joint and apply the solder
  - apply heat and solder simultaneously



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1093. Which of the following circuit breakers has high reliability and negligible maintenance ?

- (A) Vacuum circuit breaker                      (B) Air blast circuit breaker  
(C) Oil circuit breaker                              (D) Sulphur hexafluoride circuit breaker

1094. Electrolyte of a lead-acid battery is formed by adding :

- (A) water to sulphuric acid                      (B) sulphuric acid to water  
(C) water to hydrochloric acid                      (D) hydrochloric acid to water

1095. A 100 Ah capacity battery should deliver a current of 8 A for approximately :

- (A) 100 h    (B) 20 h  
(C) 8 h     (D) 12 h

1096. An AC drive system with a tacho-generator is used to supply a feedback signal and to control a conveyor belt. This represents a Closed-loop control.

- (A) True  
(B) False

1097. Which of the following conductor types are permitted to be used in a non-ventilated cable tray in a Wet location? (Refer Table 19)

- (A) TECK90    (B) RA90  
(C) TW     (D) A-7A

1098. A characteristic of an auto-transformer is that it:

- (A) isolates the secondary load resistance from the primary supply                      (B) only steps up supply voltage  
(C) has primary and secondary current-flows sharing the same coil                      (D) only steps down supply voltage

1099. A tachometer's output is calibrated in:

- (A) fps     (B) rpm  
(C) foot pounds                                      (D) cfm

