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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:

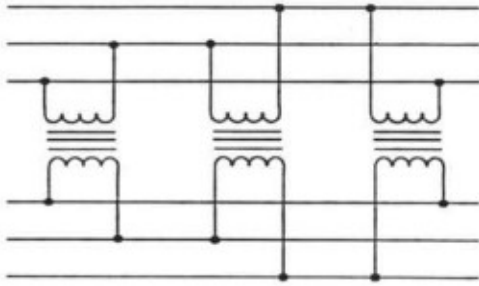
- (A) isolates the secondary load resistance from the primary supply (B) only steps up supply voltage
 (C) has primary and secondary current-flows sharing the same coil (D) only steps down supply voltage

1099. A tachometer's output is calibrated in:

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

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1100.



The transformer connection illustrated in this figure is a:

- (A) star-delta (B) delta-delta
- (C) star-star (D) delta-star
1101. What do colour bands on a resistor indicate?
- (A) The current rating. (B) The voltage rating.
- (C) The resonance value. (D) The ohmic value.
1102. What is the maximum voltage rating of type MI Mineral-Insulated Cable? (Refer Table D1)
- (A) 1000 V (B) 300 V
- (C) 600 V (D) 750 V
1103. Which of the following is the voltage rating, temp rating and use of TEW equipment wire? (Refer Table 11)
- (A) 640V, 75degrees, wet location (B) 600V, 60degrees, wet location
- (C) 340V, 105degrees, hard usage (D) 600V, 105degrees, not for hard usage
1104. The D.C. motor works on the principle that the :
- (A) combined magnetic field set up by two current carrying conductors produces a force between them (B) magnetic field set up by varying current which produces force in the conductor
- (C) conductor moves when kept in a uniform magnetic field (D) current carrying conductor placed in a uniform magnetic field experiences a force on it