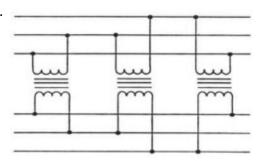
1.	The equivalent binary number to the decimal number '6' is						
	A	0110	\bigcirc B	0101			
	<u>C</u>	0010	D	0011			
2.	What does the term 'normally open contacts' mean?						
	A	It means that the contacts are open a circuit.	В	It means that the contacts are open at all times.			
	(C)	It means that the contacts are open when the relay is energized.	D	It means that the contacts are open when the relay is de-energized.			
3.	What type of drill does not require a cord with a ground connection?						
	A	Die cast.	\bigcirc B	Resistance coated.			
	<u>C</u>	Low voltage.	D	Double insulated.			
4.	What is the minimum size of single-conductor aluminum-sheathed cable that can be used for a consumer's service? (Refer Rule 6-304)						
	A	#6 awg	B	#3 awg			
	<u>C</u>	#5 awg	D	#4 awg			
5.	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?						
	A	13.4 ohms	\bigcirc B	11.5 ohms			
	<u>C</u>	10.1 ohms	D	12.5 ohms			
6.	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?						
	A	25A	\bigcirc B	30A			
	<u>C</u>	10A	D	40A			
7.	. The correct way of soldering the resistor's leads etc. is :						
	A	heat up the solder and apply the molten solder to the joint	B	apply solder before heating			
	C	heat up the joint and apply the solder	D	apply heat and solder simultaneously			

8.	Which cable to be used from Joint to Patch in Plenum for Cat5e wire? (Refer Table 19)					
	A	None of these	\bigcirc B	FCC		
	C	CMX	D	SOP		
9.	9. On a 12ohm resistor in series with three parallel resistors of 3ohms, 6ohms and 9ohms each, has the total resistance of which of the following?					
	A	43.64	B	13.64		
	<u>C</u>	8.46	D	28.9		
10. What is required to start a rotary phase converter?						
	A	A WRIM is required to start a rotary phase converter.	B	A heavy inductive load is required to start a rotary phase converter.		
	C	Capacitors are required to start a rotary phase converter.	(D)	A resistive by-pass required to start a rotary phase converter.		
11.	1. What circuit class does a high temperature cutout in an auxiliary boiler need to be?					
	A	Class 1	B	Class 3		
	<u>C</u>	Class 2	D	Class 4		
12. What effect on the current flow takes place on reversing the direction of movement conductor in the magnetic field of a generator?						
	A	current flow is stopped	B	no effect takes place		
	<u>C</u>	the magnitude of current flow is decreased	D	The direction of current flow is reversed		
13. A Wheat-stone Bridge is a series-parallel electrical bridge used to accurately me resistances in the 1 to 100,000 ohm range.				bridge used to accurately measure		
	A	false	B	1 to 25,000 range		
	C	true	D	1 to 50,000 ohm range		
14.	or with a resistance of 28 ohms?					
	A	2057 watts	\bigcirc B	1780 watts		
	<u>C</u>	1045 watts	D	3640 watts		
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1093. Which of the following circuit breakers has high reliability and negligible main							
	A	Vacuum circuit breaker	\bigcirc B	Air blast circuit breaker			
	(C)	Oil circuit breaker	D	Sulphur hexafluoride circuit breaker			
1094.	094. 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.	095. 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.	O96. 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					
	\bigcirc B	False					
1097.	097. Which of the following conductor types are permitted to be used in a non-ventilated cab tray in a Wet location? (Refer Table 19)						
	A	TECK90	B	RA90			
	<u>C</u>	TW	D	A-7A			
1098. A characteristic of an auto-transformer is that it:							
	A	isolates the secondary load resistance from the primary supply	В	only steps up supply voltage			
	C	has primary and secondary current- flows sharing the same coil	D	only steps down supply voltage			
1099.	A tac	hometer's output is calibrated in:					
	A	fps	B	rpm			
	(C)	foot pounds	D	cfm			

1100.



The transformer connection illustrated in this figure is a:

- (A) star-delta
- (C) star-star

- B delta-delta
- D delta-star

1101. What do colour bands on a resistor indicate?

A The current rating.

B The voltage rating.

C The resonance value.

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
- C conductor moves when kept in a uniform magnetic field
- B magnetic field set up by varying current which produces force in the conductor
- D current carrying conductor placed in a uniform magnetic field experiences a force on it