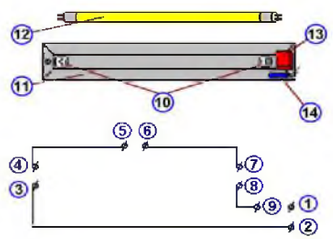
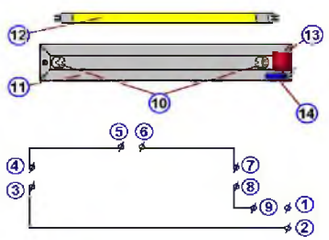
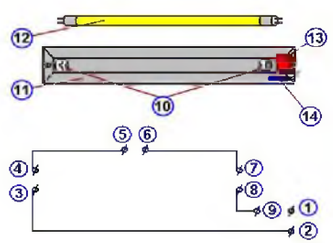
GUÍA DE ESTUDIO- MAQUINISTA NAVAL						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
ELECTRICAL INSTALLATIONS AND ASSOCIATED DANGERS						
1	The electrolyte in a charged lead acid battery consists of water and		hydrochloric acid..	muriatic acid.	dilute sulphuric acid.	potassium hydroxide.
2	In this picture of a very commonly used lamp, what are items No. 10 ?		The starting ends.	The ignition plugs.	The end fittings.	The armature fixtures.
3	What is the proper name of the lamp shown here item No. 12 ?		A SL daylight saver lamp.	A TL fluorescent lamp.	A FX neon lamp.	A GE ballast lamp.
4	What is item No. 14 as shown here in this fluorescent lamp assembly ?		The automatic fuse.	The reset button.	The light switch.	The starter.

GUÍA DE ESTUDIO- MAQUINISTA NAVAL						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
ELECTRICAL INSTALLATIONS AND ASSOCIATED DANGERS						
5	What are the prime movers that can be used to drive medium to large size industrial alternators ?		Internal combustion engines.	Steam turbines.	Gas or hydraulic turbines.	Any of the other options.
6	Which of the following duties would NOT be served by primary batteries ?		Emergency lighting.	systems such as telephones.	Emergency generator starting.	The powering of hand torches.
7	On a motorship whilst in port electrical power is provided by		shaft alternators.	turbo alternators.	batteries.	diesel generators.
8	A small electrical circuit can be used to switch on a larger circuit with which of the following ?		A transformer.	A breaker.	A relay.	A busbar.
9	On board ship an electrical transformer is used to		from one value to another.	isolate a circuit automatically.	produce D.C. from A.C.	from one value to another.
10	Which of the following statements about shaft alternators is true ?		on ships powered by slow speed diesel engines.	electrical power when a ship powered by	Shaft alternators produce the electrical power on steamships.	Shaft alternators produce direct current.
11	The main switchboard on a ship is usually situated in which of the following places ?		The alternator flat.	The Machinery Control Room.	The Bridge.	The accommodation.
12	The piece of electrical equipment used for changing a voltage, up or down, is called		a transformer.	a switch.	a fuse.	a circuit breaker.
13	The charge in a lead acid battery can be measured with which of the following ?		An ammeter.	A hydrometer.	A thermometer.	A wattmeter.
14	The name given to the force that drives electrical current is which of the following ?		Amperes.	Ohms.	Watts.	Voltage.
15	The instrument used to measure electrical insulation is called		a voltmeter.	an ammeter.	a megger.	a motormeter.
16	When wiring a modern 13 amp square pin electric plug which colour wire is attached to live ?		Yellow and green	Black	Blue	Brown
17	An electrical breaker is defined as which of the following ?		An isolating switch.	A device for changing voltage.	A circuit for producing D.C. from A.C.	A device that acts as a fuse as well as a switch.

GUÍA DE ESTUDIO- MAQUINISTA NAVAL						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
ELECTRICAL INSTALLATIONS AND ASSOCIATED DANGERS						
18	Which of the following statements about electrical fuses is true ?		necessary to replace it immediately.	fuse should be replaced with one of	restores the current automatically once the	and people from excess current automatically.
19	Ohms are a measure of which of the following ?		The quantity of electricity flowing along a conductor.	A conductor's resistance to electricity flowing along it.	Electrical power in a generator circuit.	The pressure required to drive the electricity through a conductor.
20	Concerning modern 13 amp square pin electric plugs which of the following statements is true ?		The earth wire goes to the centre top connection.	The fuse is at the neutral connection.	The live wire is coloured blue.	The neutral wire is coloured brown.
21	Which of the following would be powered by 440 volts A.C. on a modern ship ?		Accommodation lighting.	Alarm panels.	Electric motors running pumps.	Emergency generator starter motors.
22	If excessive current flows in a circuit which of the following automatically isolates the circuit ?		The fuse.	The isolating switch.	The rectifier.	The ammeter.
23	When wiring a modern 13 amp square pin electric plug which colour wire is attached to earth ?		Yellow and green	Black	Blue	Brown
24	220 volts would supply which of the following on a modern ship ?		Large main pumps.	Main air compressors.	Engine room lighting.	Purifiers.
25	On board modern ships the majority of the lights are powered by		110 volts.	440 volts.	50 volts.	220 volts.
26	When wiring a modern 13 amp square pin electric plug which colour wire is attached to neutral ?		Yellow and green	Black	Blue	Brown
27	Busbars are		copper bars carrying electrical current.	special types of fuse.	devices for changing voltage.	electrical switchboards.
28	When changing a fuse care must be taken NOT to		isolate the supply.	fit a higher capacity fuse.	have the engineer check the equipment.	discard the blown fuse.
29	A valve which is operated by an electric circuit is called a		breaker.	thermostatic valve.	motorized valve.	solenoid valve.
30	Watts are a measurement of		electrical pressure.	electricity flow.	electrical power.	resistance.

GUÍA DE ESTUDIO- MAQUINISTA NAVAL						
Q. Number	**Question**	***IMAGEN***	**A**	**B**	**C**	**D**
ELECTRICAL INSTALLATIONS AND ASSOCIATED DANGERS						
31	Behind the main switchboard are copper bars carrying electrical current. These are called		transformers.	breakers.	batteries.	busbars.
32	Onboard modern ships the main electrical power circuits are served by		220 volts.	440 volts.	110 volts.	220 volts.
33	A hydrometer is used to measure		the internal temperature of a battery.	the acid content of a battery.	the specific gravity of the battery electrolyte.	the water content of the battery.
34	A conductor's electrical current is measured in.....		Volts.	Amperes.	Ohms.	Watts.

GUÍA DE ESTUDIO MAQUINISTA NAVAL	
ELECTRICAL INSTALLATIONS AND ASSOCIATED DANGERS	
ANSWERS	
1	C
2	C
3	B
4	D
5	D
6	D
7	D
8	C
9	A
10	B
11	B
12	A
13	B
14	D
15	C
16	D
17	D
18	D
19	B
20	A
21	C
22	A
23	A
24	C
25	D
26	C
27	A
28	B
29	D

GUÍA DE ESTUDIO MAQUINISTA NAVAL	
ELECTRICAL INSTALLATIONS AND ASSOCIATED DANGERS	
ANSWERS	
30	C
31	D
32	B
33	C
34	B