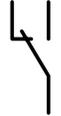
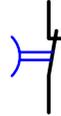
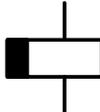
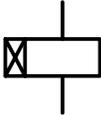
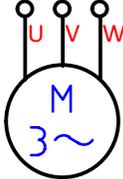


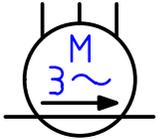
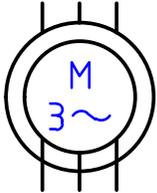
Examination questions on the subject of „Operation of shipboard electrical equipment”

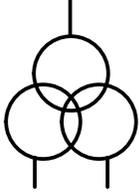
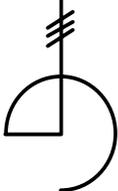
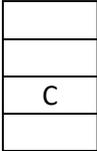
Operational level							
Operation of shipboard electrical equipment							
Questions							
O/T - means Basic/Advanced							
Item	O/T	Question	Correct answer				
1.	O	<p>Electrical diagrams, which represent all objects, functional elements, their connections and connection points with the use of symbols, so called basic diagrams, are:</p> <ul style="list-style-type: none"> A. structural diagrams, B. functional diagrams, C. conceptual diagrams, D. assembly diagrams. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td align="center">C</td></tr> <tr><td> </td></tr> </table>			C	
C							
2.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> E. NC contact, F. NO contact, G. switch contact, H. switch-off contact. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td> </td></tr> <tr><td align="center">B</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>		B		
B							
3.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> I. NC contact, J. NO contact, K. switch contact, L. switch-off contact. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td align="center">A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
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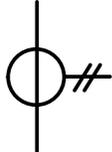
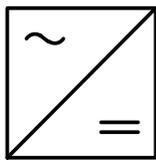
4.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. NC to NO contact, B. NO to NC contact, C. switch contact without break, D. switch contact with break. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;">D</td></tr> </table>				D
D							
5.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. NC contact, B. NO contact, C. NC contact of thermobimetallic relay, D. switch off contact with break. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;">C</td></tr> <tr><td style="height: 20px;"> </td></tr> </table>			C	
C							
6.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. NO contact, shorting with delay when opening, B. NO contact, shorting with delay when returning, C. NC contact, shorting with delay when returning, D. NC contact, shorting with delay when opening. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;">C</td></tr> <tr><td style="height: 20px;"> </td></tr> </table>			C	
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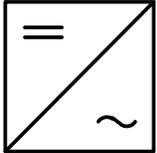
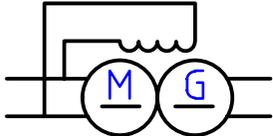
7.	O	<p>The diagrams are used to control the installation of electrical connections in buildings during their operation and to check during repairs are:</p> <ul style="list-style-type: none"> A. structural diagrams, B. functional diagrams, C. conceptual diagrams, D. assembly diagrams. 	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%; text-align: center;">D</div> </div>
8.	O	<p>The task of the block diagrams is to:</p> <ul style="list-style-type: none"> A. show the objects or their most important elements and their tasks and interrelationships, B. show electrical connections in objects, C. show the main rooms (blocks) on the ship, D. to show block representations of equipment parts. 	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 100%; height: 100%; text-align: center;">A</div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> </div>
9.	O	<p>In accordance with the IEC, the symbol</p> <div style="text-align: center;">  </div> <p>represents:</p> <ul style="list-style-type: none"> A. NC contact, B. switch contact with break, C. switch contact, D. switch contact, open in intermediate position. 	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%; text-align: center;">D</div> </div>
10.	O	<p>In accordance with the IEC, the symbol</p> <div style="text-align: center;">  </div> <p>represents:</p> <ul style="list-style-type: none"> A. relay coil with delayed fallout of contacts when the relay is switched off, B. relay coil with accelerated fallout of contacts, C. relay coil with delayed operation, D. relay coil with accelerated operation. 	<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto; display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="border: 1px solid black; width: 100%; height: 100%; text-align: center;">A</div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> <div style="border: 1px solid black; width: 100%; height: 100%;"></div> </div>

11.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. relay coil with delayed operation, B. relay coil with accelerated fallout, C. relay coil with delayed operation during excitation, D. relay coil with accelerated operation. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px; text-align: center;">C</td></tr> <tr><td style="height: 20px;"></td></tr> </table>			C	
C							
12.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. three-phase induction motor with cage rotor, B. three-phase ring induction motor, C. linear motor, D. DC current motor. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="height: 20px; text-align: center;">A</td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> <tr><td style="height: 20px;"></td></tr> </table>	A			
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13.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. three-phase induction motor with cage rotor, B. three-phase ring induction motor, C. linear motor, D. DC current motor. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="text-align: center;">C</td></tr> <tr><td style="height: 20px;"> </td></tr> </table>			C	
C							
14.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. three-phase induction motor with cage rotor, B. three-phase ring induction motor, C. linear motor, D. DC current motor. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="height: 20px;"> </td></tr> <tr><td style="text-align: center;">B</td></tr> <tr><td style="height: 20px;"> </td></tr> <tr><td style="height: 20px;"> </td></tr> </table>		B		
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15.	O	<p>In accordance with the IEC, the symbol</p>	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="height: 20px;"> </td></tr> <tr><td style="text-align: center;">B</td></tr> </table>		B		
B							

		 <p>represents:</p> <ul style="list-style-type: none"> A. double winding transformer, B. three-winding transformer, C. choke coil, D. current transformer. 	
16.	O	<p>In accordance with the IEC, the symbol</p>   <p>represents:</p> <ul style="list-style-type: none"> A. double winding transformer, B. three-winding transformer, C. choke coil, D. current transformer. 	

17.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. double winding transformer, B. three-winding transformer, C. choke coil, D. current transformer. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td>D</td></tr> </table>				D
D							
18.		<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. rectifier, B. inverter, C. choke coil, D. autotransformer. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td>A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
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19.	O	<p>In accordance with the IEC, the symbol</p>  <p>represents:</p> <ul style="list-style-type: none"> A. rectifier, B. inverter, C. choke coil, D. autotransformer. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td>B</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>		B		
B							
20.	O	<p>The symbol represents:</p>  <ul style="list-style-type: none"> a. DC-DC machine converter, b. AC-DC machine converter, c. DC-AC machine converter, d. AC-AC machine converter. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td>A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
A							
21.	O	<p>The following are not electrical power installations:</p> <ul style="list-style-type: none"> A. electric machines, B. electric apparatus, C. signaling sensor, D. protective equipment. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td>C</td></tr> <tr><td> </td></tr> </table>			C	
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22.	O	<p>The hold-to run of the "start" button is carried out by:</p> <ul style="list-style-type: none"> A. parallel connection to the start button of the auxiliary contact of the contactor switching on the device, B. serial connection to the start button of the auxiliary contact of the contactor switching on the device, C. parallel connection to the start button of the main contactor switching on the device, D. parallel and serial connection to the start button of the auxiliary contact of the contactor switching on the device. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="text-align: center;">A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
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23.	O	<p>Operation of electrical power equipment is as follows:</p> <ul style="list-style-type: none"> A. operating and maintaining the equipment in good technical condition (service, maintenance, repair, assembly and monitoring), B. operating the machine, C. maintaining the equipment in good condition, D. carrying out repairs. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="text-align: center;">A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
A							
24.	O	<p>The assessment of the operating equipment's technical condition is affected by:</p> <ul style="list-style-type: none"> A. visual inspection, reviews, testing and measurements, B. solely visual inspection and testing, C. solely tests and measurements, D. solely visual inspections and measurements. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="text-align: center;">A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
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25.	O	<p>When overviews and visual inspection of the equipment are carried out within a fixed period of time:</p> <ul style="list-style-type: none"> A. monthly, B. within the dates and scope set out in the detailed operating rules for the individual devices, as laid down in the equipment's DTR (operating and maintenance manual) or operator's manual, C. at the acceptance of class, D. when required 	<table border="1" style="width: 100%; height: 100%;"> <tr><td> </td></tr> <tr><td style="text-align: center;">B</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>		B		
B							
26.	O	<p>The ship's class is:</p> <ul style="list-style-type: none"> A. compliance of the ship's structure, workmanship and condition with the relevant requirements of the qualifying association, B. compliance of the ship's structure, workmanship and condition with the relevant national regulations, C. the level of technological advancement of on-board technology, 	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="text-align: center;">A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
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		D. the region of the world where the ship is sailing.					
27.	O	The class of the ship is confirmed by: A. a certificate, B. an entry in IMO documents, C. a class certificate, D. an entry in shipboard documents.	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td>C</td></tr> <tr><td></td></tr> </table>			C	
C							
28.	O	The period of validity of the class shall normally be: A. 24 moths, B. 3 years, C. 4 years, D. 5 years.	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td>D</td></tr> </table>				D
D							
29.	O	For maintaining the class of basic sources of electricity, the following tests shall not be performed: A. load test, B. parallel operation test, C. reverse power backup test, D. asymmetric generator work test.	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td>D</td></tr> </table>				D
D							
30.	O	The reason which does not constitute a loss of class shall be the following: A. sinking of the ship, B. more than one year's stay of the ship in port, C. providing the vessel for scrapping, D. shipowner's request for loss of class.	<table border="1"> <tr><td></td></tr> <tr><td>B</td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>		B		
B							
31.	O	The insulation resistance value of electrical circuits for a voltage range of 125 to 500V should be greater than: A. 0,5 Mohm, B. 1 Mohm, C. 2 Mohm, D. 3 Mohm.	<table border="1"> <tr><td></td></tr> <tr><td>B</td></tr> <tr><td></td></tr> </table>		B		
B							

32.	O	<p>The insulation resistance value of electrical machinery shall be greater than:</p> <p>A. 1 Mohm, B. 2 Mohm, C. 3 Mohm, D. 4 Mohm.</p>	<table border="1"> <tr><td>A</td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>	A			
A							
33.	O	<p>The value of isolation resistance of the setting and starting apparatus measured cold should be greater than:</p> <p>A. 1 Mohm, B. 3 Mohm, C. 5 Mohm, D. 7 Mohm.</p>	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td>C</td></tr> <tr><td></td></tr> </table>			C	
C							
34.	O	<p>The test voltage for electric testing of electrical insulation strength tests on electrical machinery with a value of 1 kW or more shall not be less than:</p> <p>A. 500 V, B. 1000 V, C. 1500 V, D. 2000 V.</p>	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td>C</td></tr> <tr><td></td></tr> </table>			C	
C							
35.	O	<p>The leakage meter (measurement of insulation resistance on the ship) is based on the:</p> <p>A. serial ohmmeter, B. Wheatstone bridge, C. Thomson bridge, D. technical method.</p>	<table border="1"> <tr><td>A</td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>	A			
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36.	O	<p>The basic protection against electric shock shall not be:</p> <p>A. appropriate isolation distances, B. insulation of all metal parts, C. use of fences and handrails, D. earth-leakage circuit breakers.</p>	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td>D</td></tr> </table>				D
D							

37.	O	<p>The minimum degree of protection of electrical equipment in machinery rooms with increased humidity is as follows:</p> <p>A. IP 00, B. IP 22, C. IP 44, D. IP 55.</p>	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td>B</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>		B		
B							
38.	O	<p>Maintenance of synchronous generators, if this is not specified in the DTR (operating and maintenance manual) or in the shipowner's manual, should be carried out every:</p> <p>A. 2 months, B. 3 months, C. 6 months, D. 1 year.</p>	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td>C</td></tr> <tr><td> </td></tr> </table>			C	
C							
39.	O	<p>GTR maintenance, if this is not specified in the DTR (operating and maintenance manual) or the operator's manual, should be carried out at least every:</p> <p>A. 2 months, B. 3 months, C. 6 months, D. 1 year</p>	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td>D</td></tr> </table>				D
D							
40.	O	<p>Repair of power transformers, if this is not specified in DTR (operating and maintenance manual) or ship-owner's instructions, should be carried out every:</p> <p>A. 2 years, B. 4 years, C. 6 years, D. 8 lat.</p>	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td>D</td></tr> </table>				D
D							
41.	O	<p>Repair of electrical machinery, if this is not specified in the DTR (operating and maintenance manual) or the shipowner's manual, should be carried out every:</p> <p>A. 2 years, B. 4 years, C. 6 years, D. 8 years.</p>	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td>A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
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42.	O	<p>Fan inspection, if this is not specified in DTR Inspections of CO2 signaling, if this is not specified in the DTR (operating and maintenance manual) or shipowner's manual, should be carried out every, should be carried out every:</p> <p>A. 2 months, B. 3 months, C. 6 months, D. 1 yea.</p>	<table border="1"> <tr><td></td></tr> <tr><td>B</td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>		B			
B								
43.	O	<p>Inspections of CO2 signaling, if this is not specified in DTR (operating and maintenance manual) or in the operator's manual, should be carried out as follows::</p> <p>A. monthly, B. 3 months, C. 6 months, D. 1 yea.</p>	<table border="1"> <tr><td>A</td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>	A				
A								
44.	O	<p>The following should be used for testing temperature sensors, e. g. pt100:</p> <p>A. multipurpose meter, B. computer with temperature sensor, C. temperature calibrator, D. mercury thermometer</p>	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td>C</td></tr> <tr><td></td></tr> </table>			C		
C								
45.	O	<p>The following are used to test the pressure sensors:</p> <p>A. multipurpose meter, B. computer with pressure sensor, C. new pressure sensor, D. hydraulic press.</p>	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td>D</td></tr> </table>				D	
D								
46.	O	<p>The method of locating the damage of electrical equipment, so called child method, consists in:</p> <p>A. random check of all elements, B. comparison with other similar devices, C. dividing the device elements into two sections and handling the subsequent parts, D. subsequent checking of all components.</p>	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td>D</td></tr> </table>					D
D								
47.	O	<p>The method of locating the damage of electrical equipment, so called half-part method, consists in:</p> <p>A. random check of all elements, B. comparison with other similar devices,</p>	<table border="1"> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td>C</td></tr> </table>				C	
C								

		<p>C. dividing the device elements into two sections and handling the subsequent parts, D. subsequent checking of all compo.</p>	<input type="checkbox"/>
48.	O	<p>Acidic and alkaline batteries: A. may be located in the same room, B. must not be in the same room, C. may be located in the same room with separate ventilation, D. may be located in the same room with separate heating.</p>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> B <input type="checkbox"/> <input type="checkbox"/>
49.	O	<p>The highest value of the electrostatic potential is generated during: A. CO2 discharge from the cylinder, B. CO2 discharge from a rubber hose, C. acetylene discharge, D. motion of the belt drive at a speed of 15 m/s.</p>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> D
50.	O	<p>The primary protection of the ship against static electricity is: A. earthing of tanks and hulls, B. zeroing of tanks and hulls, C. insulation of tanks and hulls, D. application of static voltage to tanks.</p>	<input type="checkbox"/> <input checked="" type="checkbox"/> A <input type="checkbox"/> <input type="checkbox"/>
51.	O	<p>The main source of microwave on board are: A. transformers, B. GPS equipment, C. radar equipment, D. radio equipment.</p>	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> C <input type="checkbox"/>

52.	O	<p>For an overweight person, the microwaves:</p> <ul style="list-style-type: none"> A. will penetrate deeper into and convert to heat in the surface tissues, B. will penetrate shallowly and convert to heat in the surface tissues, C. will penetrate deeper and will not convert to heat in the surface tissues, D. will penetrate shallowly and will not convert to heat in the surface tissues. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td>C</td></tr> <tr><td> </td></tr> </table>			C	
C							
53.	O	<p>Measurement and control of microwave on ships (except school and fishing) shall be carried out:</p> <ul style="list-style-type: none"> A. every 4 years, B. every 2 years, C. every 3 years, D. every 6 months. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td>A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
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54.	O	<p>Battery self-discharge during 28 days may should not exceed:</p> <ul style="list-style-type: none"> A. 10%, B. 20%, C. 25%, D. 30%. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td>D</td></tr> </table>				D
D							
55.	O	<p>For proper battery operation, recharge unused batteries:</p> <ul style="list-style-type: none"> A. every week B. every month, C. every quarter, D. every year. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td>B</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>		B		
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56.	O	<p>The alkaline batteries are often additionally protected from:</p> <ul style="list-style-type: none"> A. discharge, B. low temperature, C. high temperature, D. vibrations. 	<table border="1" style="width: 100%; height: 100%; text-align: center;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td>C</td></tr> <tr><td> </td></tr> </table>			C	
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57.	O	<p>In a ship's network insulated with the correct isolation resistance, the electric shock current at contact with one of the phases is caused by:</p> <ul style="list-style-type: none"> A. high earth capacities, B. low earth capacities, C. high insulation resistance D. low insulation resistance. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td style="text-align: center;">A</td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> </table>	A			
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58.	O	<p>The most important condition for taking emergency action in case of an electric shock is:</p> <ul style="list-style-type: none"> A. immediate notification to the medical service, B. checking that the infested person is conscious, C. checking whether the heart is acting, D. disconnection from the voltage. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td style="text-align: center;">D</td></tr> </table>				D
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59.	O	<p>To restore heart action after an electric shock, the heart massage should be performed at a frequency of approx.:</p> <ul style="list-style-type: none"> A. 5 presses per minute, B. 30 presses per minute, C. 60 presses per minute, D. 100 presses per minute. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td style="text-align: center;">C</td></tr> <tr><td> </td></tr> </table>			C	
C							
60.	O	<p>Electrical work which does not need to be carried out by an accompanying person are as follows:</p> <ul style="list-style-type: none"> A. work on live GTR, B. work in hard-to-reach places (e. g. tunnel), C. work at heights above 1m, D. works on the compass deck. 	<table border="1" style="width: 100%; height: 100%;"> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td> </td></tr> <tr><td style="text-align: center;">D</td></tr> </table>				D
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