




Board of Examinations for Seafarers Trust (BES)



Sample Questions for 1st Class Engine Driver

1	Write the unit of length
2	Write the unit of Pressure
2	Write the unit of Area
3	Write the unit Volume
4	Write the unit of weight
5	Write the units of temperature
6	What is full form of GRT
7	What is the full form of LOA
8	 <p>Write the pressure the gauge is indicating:</p>

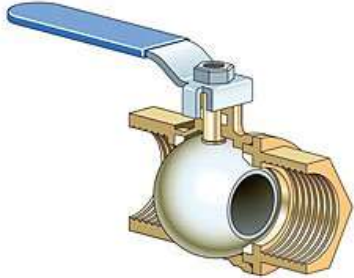

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9		<p>Write the pressure as shown in the picture in following units:</p> <p>1. PSI _____</p> <p>2. Bar _____</p>								
10	Write the unit of power									
11	Write the unit of Density									
12	What is the unit of specific gravity									
13	Name three types of vessels which ply in harbour.									
14	Name three types of ships which ply in seas									
15	Name Three types of Ocean Going ships and cargoes they carry.									
16	Name three types of vessels and their purpose.									
17	Name two types of ships used for coastal areas and their purpose.									
18		<p>Name the parts shown in the picture.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">1</td></tr> <tr><td style="text-align: center;">2</td></tr> <tr><td style="text-align: center;">3</td></tr> <tr><td style="text-align: center;">4</td></tr> <tr><td style="text-align: center;">5</td></tr> <tr><td style="text-align: center;">6</td></tr> <tr><td style="text-align: center;">7</td></tr> <tr><td style="text-align: center;">8</td></tr> </table>	1	2	3	4	5	6	7	8
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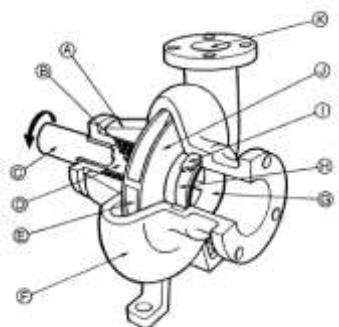
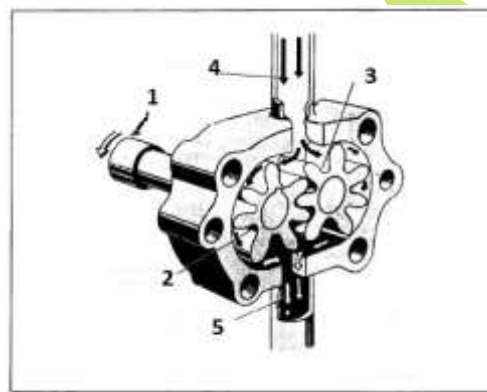
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		9
		10
19	Name four types of valves which are used in the engine room of a vessel	
20		Name the type of valve as shown in the picture
21		Name the type of valve as shown in the picture

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22		Name the type of valve as shown in the picture
23		Name the type of valve as shown in the picture
24	Write two common maintenance required for globe type of valves.	
25	Heat exchangers are used for what purposes in the engine room	
26	Name two types of heat exchangers as per the use of coolant.	
27	Name 4 parts of a common type of heat exchanger.	
28	List 2 maintenances that required for a heat exchanger.	
29	Name 4 mountings that are fitted on a heat exchanger	
30	Name three types of joints as par their use in pipelines of Engine room	

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31	State four uses of compressed air on ship	
32	Name six parts of an air compressor.	
33	List two mediums which are used for cooling air compressor	
34	List four items you will keep watch when an air compressor is running	
35	List Three uses of Compressed air in ship's engine room	
36	Name 6 mountings that are fitted on an air bottle	
37	Name Five types of pumps that are found on small vessels.	
38		Write the part names C F J K G
39	 <p style="font-size: small; text-align: center;">Figure 41.—Gear-type rotary pump.</p>	Name the following parts of the Gear Pump 1 2 3 4 5

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40	Write Two uses of semi rotary pump
41	Name what type of pumps should be used for the following purposes:
	Bilge Water
	Ballast Water
	Diesel Oil
	Lub Oil
42	Name five points which you will check when a pump is running.
43	List Five precautions you will take while bunkering a ship.
44	Explain in two lines why ballasting is required.
45	Explain in two lines why lubrication is required in machinery.
46	Name Four types of lubricating oil which are used on ship's machinery.
47	List four possibilities of less lubricating oil pressure of an engine
48	List the four strokes of an Internal Combustion Engine
49	Categories Internal Combustion Engines used on ships as per their speed.
50	Name six different parts of an Internal Combustion Engine.
51	What is the function of Piston of an Engine.
52	What is the function of Connecting rod of Internal Combustion Engine
53	What is the function of camshaft of an Internal Combustion.
54	What is the function of injector of an Internal Combustion Engine.
55	Name two types of Piston Rings.
56	What is the function of Compression Ring
57	What is the function of Scraper Ring
58	What is the function of crankshaft.
59	What is the function Turbo Charger
60	Turbo charger is driven by what
61	List four reasons of Engine not starting
62	Name Three methods by which I.C. Engines can be started
63	Write in sequence the strokes of a 4 stroke engine
64	Write Three names bearings which are there in I C Engines

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65		Name the Engine part
66		Name the Engine Part
67		Write the name of the engine part


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68		Name the engine part :
69		Name the engine part ;

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70	 <p>Two piston and connecting rod assemblies are shown. The one on the left is oriented vertically with the piston at the top, while the one on the right is oriented vertically with the piston at the bottom.</p>	Name the Engine part:
71	 <p>A crankshaft crank pin is shown, which is a curved metal component with a central hole and a smaller hole at the top.</p> <p>shutterstock.com • 1173705439</p>	Name the engine part



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72		Name the engine part
73	What is the function of Fuel Pump in an engine	
74	What should be the color of Exhaust gas coming out from the engine	
75	Name six parameters on which you will keep watch for an running engine	
76	What will you check before starting an engine	
77	Name two methods of cooling the engine	
78	How do you check the sump oil level in an Engine.	
79	List four types of hammers	
80	List four types of Chisels	
81	List six types of files	
82	List four type of spanners	

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83		<p>Name the tool mentioned in the picture</p> <p>It is used for what purpose</p>
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85		<p>Name the tool mentioned in the picture</p> <p>It is used for what purpose</p>
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87	What is the unit of electrical current	
88	What is the unit of resistance	
89	Name the main two parts of and generator	
90	What material is used for the wires in generator	
91	Poles in Generator creates what?	
92	What is the most common safety device in electrical circuit.	
93	How a fuse protects an electrical circuit?	
94	List three types of batteries	
95	Name any mixture which is used as electrolyte in battery	
96	What maintenance is required in lead acid battery	
97	For charging Battery what current is used AC or DC	
98	Name two basic part of an electrical motor	

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99	How the body of a motor is cooled.
100	List 3 parameters you will check for keeping watch on motor.
101	What is the function of rudder
102	Explain in 4 lines how a rudder is operated
103	List 4 basic components of hydraulic steering system
104	What is the maximum angle a rudder is turned on either side
105	Propeller is made of what material
106	Name two parts of a propeller
107	What machinery is used to heave an anchor
108	Name the machinery used for hauling ropes to tie the ship
109	For what purpose a transformer is used in electrical circuit
110	List four types electrical measuring equipment used in Engine room
111	List three types of fire
112	Give example of type A fire
113	Give example of type B fire
114	Give example of type C Fire
115	List three types of Fire Extinguisher as per their content
116	Name the three sides of a fire triangle
117	What type of extinguisher should be used for fighting oil fire.
118	If you see a fire what is the first thing you should do
119	List 4 items which are kept in first aid box in the Engine room
120	Name three types of Pollutants from ship