

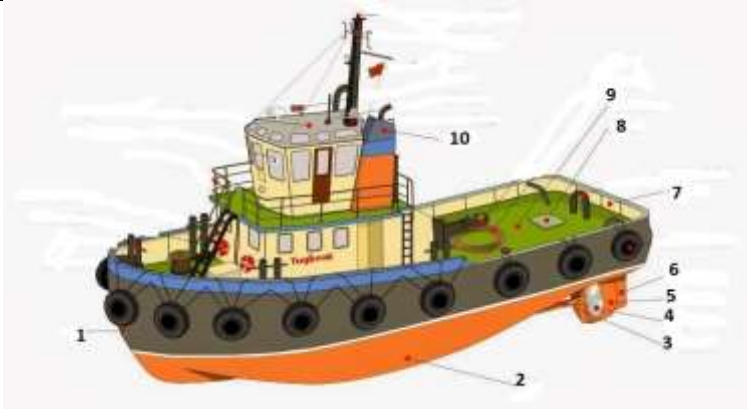


# Board of Examinations for Seafarers Trust (BES)

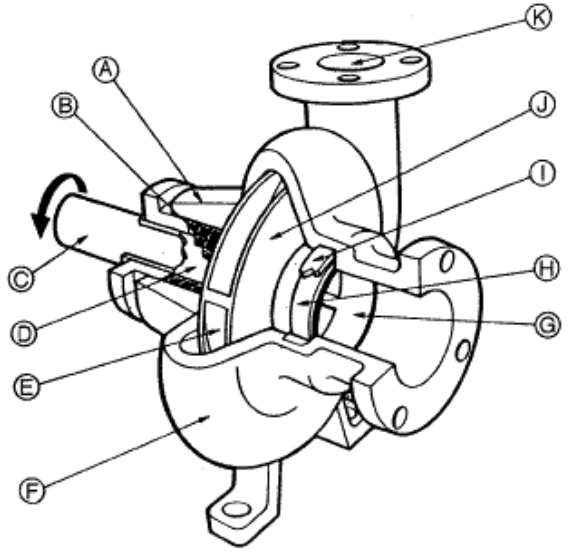
## Sample Questions for 2<sup>nd</sup> Class Engine Driver

1	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	 <p>Write the pressure the gauge is indicating:</p>

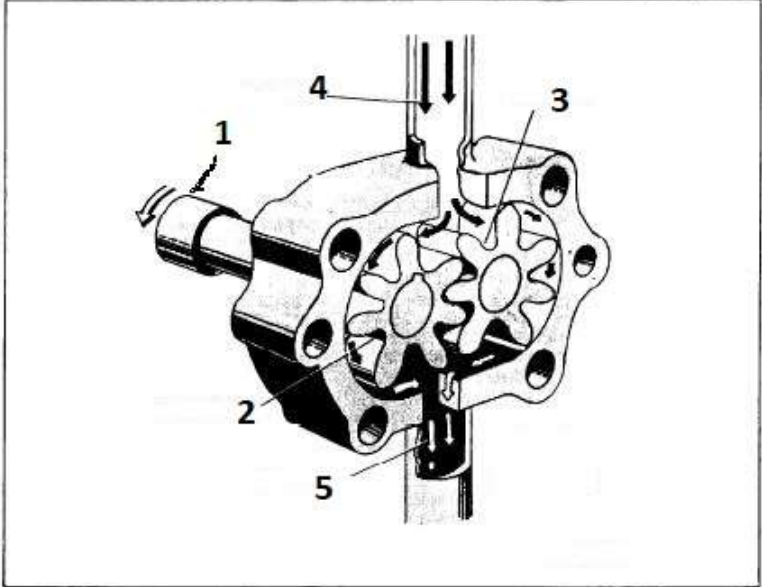
## Board of Examinations for Seafarers Trust (BES)

7		<p>Write the pressure as shown in the picture in following units:</p> <p>1. PSI _____</p> <p>2. Bar _____</p>
8	Write the unit of power	
9	Write the unit of Density	
10	What is the unit of specific gravity	
11	Name three types of vessels which ply in harbour.	
12	Name three types of ships which ply in seas	
13	Name Three types of Ocean Going ships and cargoes they carry.	
14	Name three types of vessels and their purpose.	
15	Name two types of ships used for coastal areas and their purpose.	
16		<p>Name the parts shown in the picture.</p> <p>1 _____</p> <p>2 _____</p> <p>3 _____</p> <p>4 _____</p> <p>5 _____</p> <p>6 _____</p> <p>7 _____</p>

## Board of Examinations for Seafarers Trust (BES)

		8
		9
		10
17	Name four types of valves which are used in the engine room of a vessel	
18	Write two common maintenance required for globe type of valves.	
19	Heat exchangers are used for what purposes in the engine room	
20	Name two types of heat exchangers.	
21	Name three types of joints as per their use in pipelines of Engine room	
22	State four uses of compressed air on ship	
23	Name six parts of an air compressor.	
24	Name 6 mountings that are fitted on an air bottle	
25	Name Five types of pumps that are found on small vessels.	
26		<p>Write the part names</p> <p>C</p> <p>F</p> <p>J</p> <p>K</p> <p>G</p>



## Board of Examinations for Seafarers Trust (BES)

27	 <p style="text-align: center; font-size: small;">Figure 4-1.—Gear-type rotary pump.</p>	<p>Name the following parts of the Gear Pump</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> </table>	1	2	3	4	5			
1										
2										
3										
4										
5										
28	<p>Write Two uses of semi rotary pump</p> <p>Name what type of pumps should be used for the following purposes:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Bilge Water</td> <td style="width: 50%;"></td> </tr> <tr> <td>Ballast Water</td> <td></td> </tr> <tr> <td>Diesel Oil</td> <td></td> </tr> <tr> <td>Lub Oil</td> <td></td> </tr> </table>		Bilge Water		Ballast Water		Diesel Oil		Lub Oil	
Bilge Water										
Ballast Water										
Diesel Oil										
Lub Oil										
29	<p>Name five points which you will check when a pump is running.</p>									
30	<p>List Five precautions you will take while bunkering a ship.</p>									

## Board of Examinations for Seafarers Trust (BES)

31	Explain in two lines why ballasting is required.
32	Explain in two lines why lubrication is required in machinery.
33	Name Four types of lubricating oil which are used on ship's machinery.
34	List the four strokes of an Internal Combustion Engine
35	Categories Internal Combustion Engines used on ships as per their speed.
36	Name six different parts of an Internal Combustion Engine.
37	What is the function of Piston of an Engine.
38	What is the function of Connecting rod of Internal Combustion Engine
39	What is the function of camshaft of an Internal Combustion.
40	What is the function of injector of an Internal Combustion Engine.
41	Name two types of Piston Rings.
42	What is the function of Compression Ring
43	What is the function of Scraper Ring
44	What is the function of crankshaft.
45	What is the function Turbo Charger
46	Turbo charger is driven by what
47	Name Three methods by which I.C. Engines can be started
48	Write in sequence the strokes of a 4 stroke engine
49	Write Three names bearings which are there in I C Engines
50	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;">Name the Engine part</div> </div>



Board of Examinations for Seafarers Trust (BES)

51		Name the Engine Part
52		Write the name of the engine part

Board of Examinations for Seafarers Trust (BES)



53		Name the engine part :
54		Name the engine part ;

Board of Examinations for Seafarers Trust (BES)



55	 <p>The image shows two piston and connecting rod assemblies. 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
56	 <p>The image shows a crankshaft pin, a cylindrical metal component with a central hole and a smaller hole on the side.</p> <p>shutterstock.com • 1173705439</p>	Name the engine part
57	What is the function of Fuel Pump in an engine	
58	What should be the color of Exhaust gas coming out from the engine	



## Board of Examinations for Seafarers Trust (BES)

59	Name six parameters on which you will keep watch for an running engine
60	What will you check before starting an engine
61	Name two methods of cooling the engine
62	How do you check the sump oil level in an Engine.
63	List four types of hammers
64	List four types of Chisels
65	List six types of files
66	List four type of spanners
67	 <p>Name the tool mentioned in the picture</p> <p>It is used for what purpose</p>
68	 <p>Name the tool mentioned in the picture</p> <p>It is used for what purpose</p>

## Board of Examinations for Seafarers Trust (BES)

69		<p>Name the tool mentioned in the picture</p> <p>It is used for what purpose</p>
70		<p>Name the tool mentioned in the picture</p> <p>It is used for what purpose</p>
71	What is the unit of electrical current	
72	What is the unit of resistance	
73	Name the main two parts of and generator	
74	What material is used for the wires in generator	
75	Poles in Generator creates what?	
76	What is the most common safety device in electrical circuit.	
77	How a fuse protects an electrical circuit?	
78	List three types of batteries	
79	Name any mixture which is used as electrolyte in battery	
80	What maintenance is required in lead acid battery	

## Board of Examinations for Seafarers Trust (BES)

---

81	For charging Battery what current is used AC or DC
82	Name two basic part of an electrical motor
83	How the body of a motor is cooled.
84	List 3 parameters you will check for keeping watch on motor.
85	What is the function of rudder
86	Explain in 4 lines how a rudder is operated
87	Propeller is made of what material
88	Name two parts of a propeller
89	What machinery is used to heave an anchor
90	Name the machinery used for hauling ropes to tie the ship
91	List three types of fire
92	Give example of type A fire
93	Give example of type B fire
94	Give example of type C Fire
95	List three types of Fire Extinguisher as per their content
96	Name the three sides of a fire triangle
97	What type of extinguisher should be used for fighting oil fire.
98	If you see a fire what is the first thing you should do
99	List 4 items which are kept in first aid box in the Engine room
100	Name three types of Pollutants from ship