MERCHANT MARINE ACADEMY OF MACEDONIA SCHOOL OF ENGINEERS

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Instructors: A. Birbili, Dr E. Botonaki

Student's name: Student number:

FINAL EXAM

A. Insert an appropriate word in the gaps. (15 p.)		
rotary volute displacement vanes reciprocating		
centrifugal casing screws multi-stage impeller		
There are two main groups of pumps: the (1) pumps and the		
(2) pumps. The 1 st group is subdivided into (3)		
pumps in which a piston moves up and down, and (4) pumps in		
which the moving part rotates. The rotating part can be gears, (5),		
(6), etc. The centrifugal pump on the other hand consists of a(n)		
(7) which rotates at high speed inside the pump		
(8) The most common type of centrifugal pump is the		
(9) which has taken its name after the spiral case which surrounds		
the impeller. If the centrifugal pump has two or more impellers, it is		
(10)		
B. Match the terms to their explanation underneath. (10 p.)		
<u>feed check valve</u> <u>main stop valve</u> <u>salinometer</u> <u>drain valve</u> <u>mountings</u>		
<u>chemical dosing valve</u> <u>lag</u> <u>safety valve</u> <u>soot blower</u> <u>malfunction</u>		
delay between two events		
a valve to control the entry of water to the boiler		
a gauge to check the salinity of water		
fittings, such as gauges and valves of the boiler		
a valve which controls the passage of steam to the engine		
a valve which releases the excess of steam		
a valve for adding chemicals directly to the boiler		
irregular or abnormal function		

C. Fill in the missing prepositions to complete the following Standard Marine Communication Phrases (SMCP). (10 p.)

in after under with by on	to of		
I am attack pi	rates.		
I have dangerous list port.	I am danger		
capsizing.	C		
I am flooding the engine ro	oom.		
I have collided iceberg. Cr			
collision.			
I am fire. I am	critical condition		
1 um me. 1 um	_ critical condition.		
D. Fill in the gaps with the followin	g words. There are two extra words		
(10 p.)	g words. There are two extra words.		
(F -)			
compressed impeller inlet skirt	gudgeon B.D.C. rotor		
scavenge compression self-ignited	T.D.C. crown		
In a 4-stroke D.E. the piston is connected	ed to the connecting rod with the		
The 2-stroke D.E. has	ports instead of a(n)		
valve.	_ ports instead of a(ii)		
The fuel is because of	of the high temperature of the		
air.			
The turbine of the turbocharger is driven by the exhaust gases.			
At the end of the 1 st stroke of a 4-stroke	D.E. the piston is at the		
The upper part of the piston is called			
The three upper part of the piston are	rings.		
T West the second of the form of the	l f . 4 -4l		
E. Write the names of the four stro			
describe the compression stroke. (20 p	•)		
Names of the four strokes: 1	2		
34			
J 1			

F. Underline the correct choice. (7.5 p.)

- -- In a **compressor / condenser** steam changes into water.
- -- In a **deaerating / balancing** tank water gets rid of air and other gases.
- -- The **service /condensate** pump draws the water from the **condenser / economiser** and discharges it into the **preheater / deaerating tank**.
- -- In a(n) **impulse / reaction** turbine the steam is directed from the nozzles against the stationary blades and turns the rotor.
- -- The reaction turbine is **more / less** efficient than the impulse turbine.
- -- In a steam plant of a reaction turbine, the **superheated / saturated** steam is fed into a **L.P. / H.P.** turbine first, where some of its **heat / mechanical** energy is converted into useful work.

G. What must you do when you notice a man overboard? Write 5 (five) sentences. (consider the words: lifebuoy, alarm, lookout, Williamson turn, visual		
	alarm, lookout, Williamson turn, visual	
contact) (10 p.)		
1. I must		
2		
3		
4		
5		
H. Which of the auxiliary machinery	<u>is used for</u> (7.5 p.)	
reducing rolling of the ship?		
supplying the ship with electrical power a	and lighting?	
handling the cargo?		
transferring liquids from one place to ano	ther?	
burning the garbage?		
ourning the garbage:		
I. Supply the correct form of the wo	rd in narenthesis (10 n)	
1. Supply the correct form of the wo	Tu in parentnesis. (10 p.)	
There is a great (vary) of liquids on board	
Fire (detect) warn us	of a fire in a place	
Sometimes in case of oil spills you use		
You must test the atmosphere for toxic ar		
	iu (Hame) gas	
(concentrate).	.4)	
I require medical (assisted) the (neglect) or	(1).	
The (neglect) or	(accident) dumping of oil into	
the sea is a serious offence.		
As (prevent) is better	than cure, it is important to obey the	
international anti-pollution	(regulate).	

GOOD LUCK!!!