MERCHANT MARINE ACADEMY OF MACEDONIA **SCHOOL OF ENGINEERS**

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FINAL EXAM

<u>A.</u>	Insert an appropriate word in the gaps. (15 p.)
There	e are two main groups of pumps: the pumps and the
	pumps. The 1 st group is subdivided into pumps
in wh	nich a piston moves up and down, and pumps in which the
movi	ng part rotates. The rotating part can be gears,,,
etc. T	The centrifugal pump on the other hand consists of an which
rotate	es at high speed inside the pump The most common type of
centri	ifugal pump is the which has taken its name after the spiral
case	which surrounds the impeller. If the centrifugal pump has two or more impellers,
it is _	
B. feed o	Match the terms to their explanation underneath. (10 p.) check valve main stop valve salinometer drain valve mountings
chem	ical dosing valve lag safety valve soot blower malfunction
a v a g fitt a v a v a v it r	ay between two events
	egular or abnormal function

C. Fill in the correct preposition to complete the following Standard Marine Communication Phrases (SMCP). (10 p.)
I am attack pirates I have dangerous list port. I am danger
capsizing I am flooding the engine room I have collided iceberg. Crew must abandon vessel collision.
I am fire. I am critical condition.
D. Fill in the gaps with the following words. There are two extra words. (10 p.)
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 to the connecting rod with the pin.
The 2-stroke D.E. has ports instead of a(n) valve.
The fuel is because 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 and the lower
The three upper part of the piston are rings.
E. Write the names of the four strokes of a 4-stroke diesel engine and describe the compression stroke. (20 p.)
Names of the four strokes: 1 2
34
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
contact) (10 p.)
1. I must
2
3
4
5
H. Which of the auxiliary machinery is used for (7.5 p.)
reducing rolling of the ship?
supplying the ship with electrical power and lighting?
handling the cargo?
transferring liquids from one place to another?
burning the garbage?
I. Supply the correct form of the word in parenthesis. (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 (disperse).
You must test the atmosphere for toxic and (flame) gas
(concentrate) I require medical (assist).
I require medical (assist).
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).