## MERCHANT MARINE ACADEMY OF MACEDONIA SCHOOL OF ENGINEERS

**Course: Maritime English Academic year: 2016 - 2017** Exam period: February 2017 **Semester: B' (old students before Manila)** Date: Name: Exam paper grade: **Student number:** Instructors: A. Birbili, E. Botonaki **FINAL EXAM** Match the terms to their explanation. (15 p.) soot blower safety valve desuperheater furnace feed check valve atomiser main stop valve oil burners economiser superheater steam drum D.F.T.water level indicator mountings condenser -- A valve which releases the excess of steam: -- The place in the boiler where the fuel is burnt: -- A great number of small tubes which super heat the wet steam: -- They supply the fuel and air to the furnace: \_\_\_ -- The upper drum of a water-tube boiler where the separation of water and steam occurs: -- A device by means of which a liquid is reduced to very fine spray: \_\_ -- A heat exchanger that transfers heat from the gases of combustion to the boiler feedwater: -- It shows the level of water in the boiler: -- It removes the black carbon particles from the tubes of the boiler: -- A valve which controls the passage of the steam to the engine: \_\_\_\_\_\_ -- A valve which controls the entry of water to the boiler: \_\_\_\_\_ -- A device which cools exhaust steam back into water: \_\_\_\_\_ -- fittings, such as gauges and valves of the boiler: -- A device for removing all or part of the superheat from steam by spraying water into it or by use of a heat exchanger: \_ -- A tank in which water gets rid of air and other gases: B. 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 \_\_\_\_\_

-- I am \_\_\_\_\_ fire. I am \_\_\_\_\_ critical condition.

collision.

## C. Put the words below in the right gap. (15 p.)

A turbocharger of a single turbine wheel, the o which is mounted on the same shaft as with the o compressor. The compressor compresses the air was the scavenge air manifold.	
compressor. The compressor compresses the air v	
and the scavenge air manifo	
	old. Besides the
rotor, the turbine has a stator too, that is, stationary	
which direct the gases to the rotor. On the compres	
a and a casing, both of which	
to the further rising of the pressure of the compr	ressed air. There
is also a to absorb the noise of the	of the
running	
D. Write the names of the four strokes of a 4-stroke diesel en	igine and
describe the compression stroke. (16 p.)	
Names of the four strokes: 1 2	
3 4	
E. Fill in the gaps with the following words. (10 p.)	cavenge crowi
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E. Fill in the gaps with the following words. (10 p.)  compressed inlet skirt gudgeon B.D.C. rotor s compression self-ignited  In a 4-stroke D.E. the piston is connected to the connecting rod wipin.  The 2-stroke D.E. has ports instead of a(n)	th the
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F. What must you do when you notice a man overboard? Write 5 (five)
sentences. (consider the words: lifebuoy, alarm, lookout, Williamson turn, visua
contact) (7.5 p.)
1. I must
2
3
4
5
G. 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?
owning the gurenger
H. Match the ship dimensions to their definitions. (6 p.)
beam depth draught length overall air-draught freeboard
height from baseline to uppermost continuous deck:
the distance between the water line and the top of the deck at the side:
the vertical distance between the water line and the highest point of the ship:
the maximum depth underwater:
the horizontal distance over the extremities, from stem to stern:
width (breadth) of the hull:
<b>I.</b> Complete the diagram on pumps by filling in the 13 gaps. The words you
need are given below. (13 p.)
lobe rotary double-acting diffuser centrifugal reciprocating volute
regenerative single-acting gear-wheel vane-type displacement screw-type
DATE ADO
PUMPS
<del></del>
<del></del>
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GOOD LUCK!!!