MERCHANT MARINE ACADEMY OF MACEDONIA SCHOOL OF ENGINEERS

Academic year: 2012 - 2013	Exam period: February
Semester: C (retakes)	Date:
<u>Instructor's name:</u>	
Student's full name:	
<u>A.Γ.Μ.:</u>	

FINAL EXAM IN MARITIME ENGLISH

1. Fill in the gaps with an appropriate word from the list. There are some
extra words. (30 p.)
A.
larger reduction slower cheaper high propeller faster slow
efficient medium-speed directly weight low operate slow-speed
tankers cylinders
Large diesel engines which have nearly 3ft in diameter turn at the relatively speed of about 108 r.p.m. They are known as
diesel engines and are used mainly in and bulk carriers. They can be connected to the propeller without gears and they have fuel consumption.
More and more, however, of the merchant vessels are being powered by diesel engines. These between 150 and 450 r.p.m.
Therefore, they are connected to the by gearing, since a propeller is more the larger it is and the it turns. These engines are than slow-speed diesel engines and their smaller size and
can result in a smaller, cheaper ship.
В.
displacement gear-wheel device turbine suction piston raise gas
impeller reciprocating interlocking size rotary volume pumping
non-return centrifugal
A pump is a which is used to liquids from a low point to a high point.
A system aboard ship consists of a branch, a pump and a discharge branch.

In the	pump, the increase or decre	ease of the	_ of the pump
chamber causes the suction or discharge of the liquid or			
A simple kind	of pump is the sing	de-acting ram pump v	which consists of a
n	noving up and down inside a cha	mber fitted with	suction
and delivery v	alves.		
The	pump is an example of	displacement	pump. It consists
of	gear wheels which rotate.		
	pump there is a(n)	rotating at high s	peed inside the
pump casing.			

2. Which of the following machinery corresponds to the definitions underneath? Match them. (15 p.)

windlass mooring winch slewing motor lifeboat liferaft cable lifter
bow thrusters stabilisers davits ballast pump distress rockets bilge pump

- 1. It rotates the crane:
- 2. It handles the ropes to moor the ship:
- 3. It handles the anchor:
- 4. It handles the anchor chain:
- 5. They reduce rolling of the ship:
- 6. They lower the lifeboats to the sea:
- 7. They improve manoeuvrability when the ship is at a standstill:
- 8. It sucks the unwanted water from watertight compartments of the ship:
- 9. They are used as flash signals in an emergency:
- 10. It is inflated when it is thrown overboard:

3. <u>Match the incidents to the reasons which may cause them.</u> (10 p.)

1. Collision	a. Explosion of a chemical container
2. Grounding	b. Lack of maintenance
3. Fire	c. Major flooding
4. Oil spill	d. Poor ventilation
5. Cargo contamination	e. Power failure
6. Engine breakdown	f. Foggy weather conditions
7. Rise of piston temperature	g. Bad cargo management
8. Instability and list of the ship	h. Uncharted rocky or low water
9. Sinking of the ship	i. Overflow during bunkering
10. Blackout	j. Inadequate lubrication

4.	Put the verbs into the "Simple Past" tense.	(10 p.)
		_

1. They	(launch) the new tanker last week.
2. M/V KIRKI	(leave) the dry dock two days ago

3 (Capt. Fokas	
4. The Chief Engineer first	(meet) his wife when he was twenty
years old.	
5. You look tired. What time	(you/sleep) last night?
	ound) in shallow waters a month ago but they
(not/manage)	
	heavy list to starboard so we
(jettison) cargo to make the vessel	
	(have) a security breach incident on board.
o. Last hight we	_ (nave) a security oreach merdent on board.
	ppropriate derivative of the words in the
parentheses. (10 p.)	
	ect) of steam into a water system could cause
(corrode).	
= =	(reserve) to the maximum
(press).	
3. We have to check that the	(mechanic) lubricators are full and that
they work well.	
4. The (remove) or	f air from the cylinder is done with the help of air
cocks.	
5. The cooling water system must be	be kept in (operate) and the
inlet temperature of the cooling wa	ter should (various) between 110
degrees F and 150 degrees F.	, , ,
-	nanufacturer's
(recommend).	
· ·	or we should make an
(examine) inside the crankcase.	
(examine) morde the crankease.	
6. Match the words to their	explanation. (5 p.)
1. combustion	a. firing
2. pitted	b. not leaking
1	c. burning
3. capacity	d. inflammable
4. joint	
5. regulate	e. spotted
6. ignition	f. connection
7. tight	g. preventive measures
8. precautions	h. deposits of substances in water
9. combustible	i. adjust
10. scale	j. cubic content
7. Answer one (1) of the two	questions. (20 p.)
1. Describe the combustion stroke	of a 4-stroke diesel engine.
2. Write the devices used to detect	fire on board and some precautions against fire.

GOOD LUCK!!!

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