Merchant Marine Academy of Macedonia

School of Engineers
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Name: Student number: Exam paper grade:

FINAL EXAM IN MARITIME ENGLISH

1. Complete the text using the words given. (12 p.)

disperse, sodium, fines, separate, components, efficiency, sludge, incompatibility, abrasive, cleanliness, particles, after
Homogenisers are used to any water and which could remain
in the fuel after centrifuging. A homogenizer placed the centrifuge will render
fresh water harmless to the engine. It is also a good way to deal with problems.
Homogenisers installed before the fuel centrifuge can reduce the of the
centrifuge and thus, the of the fuel delivered to the engine. The
will not be removed from the fuel in the form of salt water. The cat
and other material might be split up into very small
, which are very difficult for the centrifuge to, and which
will still have a harmful effect on the engine
2. Fill in the gaps with a word from the list. There are two extra words. (12 p.)
2. Thi in the gaps with a word from the list. There are two extra words. (12 p.)
strainers, non-return, ballast, discharged (p.p), return, ejector, list, draught, pumps, overboard, separator, trim, well, vacuum
Bilge wells are periodically emptied by pumping out the bilge with the help of bilge
All suction lines are fitted with valves which do not allow the liquid to flow
back to the bilge
A(n) creates a by the speed of the water flowing through
it.
Bilge wells are always provided with to prevent solid particles from entering
and choking the bilge pump.
A(n) anti-heeling system is used to minimise the of the vessel in port.
According to MARPOL regulations, bilge water must first pass through an oily water before being overboard.
During a(n) operation at night, while at a shipyard in order to
the vessel for drydocking, it was discovered that the engine room was flooded.
When the PPM of oil particles in the mixture comes down to the permissible limit, it can be
thrown
3. Supply the missing words. The first letter is given. (15 p.)
The engine must be warmed up gradually by means of the circulating p
D is related to fuel quality.

The Calculated Carbon A _	Index is u	sed as an indication of the ignition quality
of a residual fuel.		
W may o	cause corrosion in the fuel s	ystem.
Temperatures below the po	our p of a f	uel lead to wax formation.
Total s	potential is used to indicate a	and assess the stability and cleanliness of a
fuel.		, and the second
	ormally present in the fuel a	s salt water contamination and can be
removed by centrifuging.	J 1	
When you turn the engine v	with the turning g	, the indicator cocks must be open.
Present r	of the main engine are 100	per minute.
Present p	of propeller is 90 degrees.	
Do not exceed a minimum	t of 20	degrees centigrade.
Do not exceed a p	of 4 bars.	
2 0 1100 011000 th P	01 : 0420,	
4. Match the following para	ameters tested in fuel to th	eir definitions. (15 p.)
carbon residue, cat fines, v sediment	vater, flash point, pour p	oint, sulphur, ash, density, viscosity,
	by volume; it may cause comparation: ng tendencies of a fuel: istance to flow: ible components of fuel oil: ransport and storage of the f which the fuel will flow (exports) corrosive to cylinder liners	rosion in the fuel system: fuel (expressed in degrees centigrade): pressed in degrees centigrade):
5. Circle the correct choice.	. (10 p.)	
in combination with so a. Vanadium The initials BoB stand for:	dium may lead to exhaust v b. nickel	alve corrosion and turbocharger deposits. c. iron
a. Bunkering on Board	b. Ballast on Board	c. Blending on Board
are small particles of the	ne catalyst used in the refinit	-
a. ash	b. aluminium and silicon	
The is used as an indi	cation of the ignition quality	y of a distillate fuel.
a. base number	b. CCAI	c. cetane number
is a measure for the flu		
a. pour point	b. density	c. kinematic viscosity
* *	•	orint" of used lubricating oils, and
limits for these were set in IS		or used rustreaming ons, and
a. elements	b. particles	c. acids
	=	s with high to minimise the effects of
sulphur.	15010 600 opooidi idoilodiit	
a. TAN	b. TBN	c. SAN
The energy content of a fue		
a. r.p.m.	b. p.p.m.	c. b.t.u.
-	* *	for safe transport and storage.

a. pour pointIt detects all acids presenta. acid number		y indicate other harm	
6. Match the words from t	he list to their synonyms/	definitions below. (12 p.)
accumulate, alter, wear and impede, heeling, sounding,		ndensation, contami	inate, replenish,
change: more than necessary: the process of steam turnin damage due to continuous take apart, disassemble: stop: refill: the process for calculating gradually increase in quan list: pollute:	use: the total quantity of fluid i	in a tank:	
 with salt:7. Complete the sentences	with the correct form of t	the words in parent	heses. (12 p.)
Poor combustion can cause residues in the scavenging ai Obtain	r chambers (permit) from the bridge _ (deep) and the number of the deep it generates. n accumulate in the ship as (leak) of pipes, was p's (stable install) of homogenizers b for not mean cause	to test main engine and bilge wells depended as a result of	ahead and astern. on the ship's size, its
8. Complete the sentences	with an appropriate prep	oosition. (12 p.)	
The temperature is too hig Decide whether the harbou heavy fuel oil. Warm the engine	ir manoeuvres should be ca		on diesel oil or
Call the Watch Engineer if Start all coolin Fuel is known to form dep Some cylinder oil leaks Have all the preparations b We have to transfer water	the revolutions of the maig water and lub-oil pumps osits hot spot the stuffing box been done prior	. s, i.e. in the piston ur , down into the syste arrival in port?	ndercrown space. m lube oil sump.