Merchant Marine Academy of Macedonia- School of Engineers						
Course: Maritime English		Academic year:2021-22		Exam period: September		
Semester: D	Date:	09/09/22	Instr	ructors: A. Birbili, E. Xenitidou		
Student's name:						
Student's number:						
	Exa	ım paper grade	:	Instructor's signature		

Fill in the gaps with the correct preposition. You can choose from the following prepositions: in, on, out, off, above, over, in, into, towards, at, with, from, after, before, to. (5 p.)

There is no pumpingpresent.

Preparations should be done priorarrival in port.

The temperature is too high. It is 29 degreesnormal.

Decide whether the harbour manoeuvres should be carriedon D.O. or H.F.O.

Change-.....should be executed one hour before the first manoeuvres are expected

State whether the following sentences are True (T) or False (F). (10 p.)

The Chief Engineer can use new fuel oil, even if s/he has not received the analysis results. Low ignition quality can mean poor combustion and diesel knock.
There are two bilge pumping systems. When the "finished with engine" order is given from the bridge, change over from engine room control
to bridge control.
Ballast is taken on board in order to increase the list of the ship.
A new blending on board concept makes it possible to add chemicals to the engine circulating oil and then use it as cylinder oil.
The main purpose of the ballast system is to pump excess water out of the ship. According to MARPOL regulations, the residue of oil in the water that is pumped overboard must not exceed 15 ppm
exceed 15 ppm. Engines appreting on high Sylphym fyels was appealed lybridgents with high TDN to minimize the effects
Engines operating on high Sulphur fuels use special lubricants with high TBN to minimize the effects
of Sulphur.
Lube oil that has been used is clean and does not need to be centrifuged.
Water must be added to the lube oil when centrifuging.
Distillate fuels cannot be centrifuged
Lube oil quality can cause problems to the engine
There are no standards for the ignition quality of fuel, you can only have some indications
you can take into account.
Homogenizers must be placed before the centrifuge
A grinding tool can remove vanadium deposits from the turbocharger nozzle ring.
Cat fines do not cause abrasive wear

Match the words to their synonyms/definitions. There is one (1) extra word. (15 p.)

Miscellaneous	<u>replenish</u>	excess	<u>obstruct</u>	<u>trim</u>	ullage com	ply with	<u>dismantle</u>
	<u>ondensation</u>			<u>disengage</u>	<u>component</u>	<u>device</u>	<u>box</u>
- '	lisassemble						
	• • • • • • • • • • • • • • • • • • • •						
refill							
chest							
-	ious						
	an order		a				
	of measuring the	e depth of	a fluid in a	tank	• • • • • • • • • • • • • • • • • • • •		
come out							
let go			• •.•				
	ne between two						
_	of steam or war				•••••		
	s acceptable or r						
	that things can	not move th	nrough easi	ıly	• • • • • • • • • • • • • • • • • • • •		
part		c 1 c	. 1 1 .				
	ce between the f		_			. 1. / 1 12	/ 1: 1 /
	ps with the fo						
	oriming/ distilla	ie/ raie/ aa	<u>nerence/ n</u>	iua/ gravu)	<u>y/ mountea/ co</u>	<u>miaminaie</u>	<u>:a</u>
<u>(15 p.)</u>							
water. The most the engine of bilge water. several sure and present An anti	probable cause room and lack of the cause room and lack of the cause room a bilge attention lines are constant of the cause do	of the floo of	ding was lato problem to fabiliter on the particles fr on a manific sed to min	ack of comproper proces a contains valge well. suction linguation of the suction of the succession of	munication be dures regardin ralves, each of e head which g the pumps an	tween the g the soun which cor	deck side and d alarm. atrols the flow orated basket,
	for the ballast sy			than the	rules for bilg	e systems.	
	many reasons fo						ı board.
 Heavy fue 	l (residuals and	mixtures o	f residuals	and) m	ust be puri	fied in an
-	efficient centrifuge before entering the service tank. There are several key points.						
	Ensure that the					/ 1	
	Never exceed t					rade of fue	el in use. The
2.					-		
lower the flow rate the better the efficiency. Consider using two or three centrifuges in series/ parallel as purifier/clarifier.							
3	Centrifuging is	-			ata fuels MD	O/MGO d	e the fuel
٥.					ate fuels. WID	νΟ/WIGO, ε	is the fuel
	may be	11	i tile storag	e taliks.			
It is indicati a) CCAI	ve of the ignition	on delay of b) cetane r	number	c)	octane number as "hot corro		turbocharger
_	and silicon	h) vanadiu	m and sodi	um c)	calcium and z	inc	

They are indicators of use	d lubricating oils in the fuel.	
	_	c) calcium, zinc and phosphorus
	with the turning gear, the	
a) drain	b) indicator	c) valve
	of a fuel at a certain temperatu	,
	b) pour point	c) density
	stible metals present in a fuel.	, •
	b) acid number	c) ash content
		a corresponding energy loss. It may cause
corrosion in the fuel system.		1 6 67
a) sulphur	b) water	c) vanadium
It indicates the ignition qu	ality of distillate fuels.	
	b) CCAI	c) cetane number
It is used to indicate and a	ssess the stability and cleanling	ess of a fuel.
	b) carbon residue	
		es which have to comply with international
SOLAS rules.		
a) societies	b) groups	c) organizations
One hour before arriving i	n port, you must shut and lock	direct overboard discharge.
a) sludge	b) garbage	
The bilge system is a:		-
	b) non-safety system	c) safety system required by law
		er with the water used to clean the tanks.
a) Sludge	b) Slop	c) Waste
The lowest temperature at	which the fuel is observed to i	flow.
a) cloud point	b) flash point	c) pour point
It is expressed in kilogram	ns per cubic meter and mainly a	affects the fuel separation.
a) specific gravity		c) kinematic viscosity
It must be known for safe	transport and storage and is se	t at 60° C (minimum value) as per SOLAS
regulations.		
	b) melting point	
Depending on and t	trim we choose which bilge we	ell the water is collected in.
a) ballast	b) speed	·
	ction lines are fitted with	valves which do not allow the liquid to
flow back to the bilge well.		
a) non-return	b) safety	c) throttle
When the ship is about to	arrive in port, you must close	e thefor exhaust gas boiler and open
bypass.		
a) valves	b) dampers	c) indicators
It indicates the coke-form		
a) sodium	b) carbon residue	c) sediment
		ompounds can severely damage the engine
parts they come in contact w		
a) sulphur	b) sodium	c) vanadium
		m and silicon used in the refining process
and carried over into the resi		
a) acids	b) cat fines	c) sediments
		which prevents solid particles from entering
the pumps and choking them		
a) strum	b) filter	c) sludge
	cal equipment occurred because	se the engine room was flooded by 2.5 m
forward and 3m aft.		
a) sunk	b) emerged	c) submerged

During pre-departure		check if the starting air	
are running, and			
a) bottles		c) compressors	
		s paperwork to ensure the delivery	in terms
of quality and specificat		- -	
a) applies			
Regardless of whethe	r the service of an indep	pendent fuel analysis contractor is utili	sed or not, the
C/E should take a con	tinuoussample	e at the manifold throughout the en	tire bunkering
procedure.			
a) drip	b) drop	c) drizzle	
Always order fuel acc	ording to the engine ma	aker's using the industry fuel oil	standard ISO
8217.			
a) recommendation	b) prescription	c) approval	
The corners of the low	vest of a ship co	nstitute a bilge.	
a) component	b) compartment	c) department	
		eter should be in working ord	ler to maintain
correct viscosity of the f	uel at the engine.	_	
a) adequate		c) enough	
•			
Complete the following	sentences with an app	propriate word. The first letter is give	<u>en.</u>
(10 p.)			
The bilge h	tank is a huge t	tank where bilge water is pumped into	
from the bilge wells.			
F u	p the fuel oil service tar	nk with purified fuel oil.	
Present o			
		lepend on the ship's size, its capacity a	nd the amount
of bilge it generates.			
F and aft bil	ge tanks, deep tanks, do	uble bottom tanks and wing tanks are u	sually used for
ballast water, depending			
Do not exceed a minii	num	of 20 degrees centigrade.	
Do not exceed a	of 4 ba	ars.	
W up th	e engine gradually using	g the circulating pumps to circulate the	system.
		to their maximum pressure and d	them
of water.		-	
Complete the sentences	s with the correct form	of the words in the parentheses. (15	5 p.)
You have to obtain	(permit	of the words in the parentheses. (15) from the bridge to test main engine ah	ead and astern
on air.			
Report	(ready) of the	engine to the bridge.	
One of the world's lan	gest marine diesel engir	nes burnt untested fuel containing cat f	ines which are
(cat) a			
Ejectors are	(rely) in opera	tion, as they don't have any	(move)
parts. This is why	(maintain	tion, as they don't have any) is minimal.	
The	(clean) of cooling v	water has to be checked.	
Homogenizers can als	o deal with	(incompatible) problems.	
(add) a			
		d other solid contaminants can be remo	oved through a
fine filter			8
Are minimum of two		(alternate) running and in parallel?	
Stop	(add) running generate	(alternate) running and in parallel? or.	
Cat fines are highly _	(abr	ade).	
Check the	(suitable) o	f lube oil in the sump tank.	
Sulphuric acid is high		orrode).	