Merchant Marine Academy of Macedonia- School of Engineers							
Course: Maritime English		Academic year:2023-24		Exam period: February			
Semester: D	Date:	20/02/24	Instru	ctors: A. Birbili, E. Xenitidou			
Student's name:							
Student's number:							
	E	xam paper grade	:	Instructor's signature -			

1.Fill in the gaps with a word from the list. (15 p.)

anti-heeling	ejector	overboard	drydocking	strainers
ballast	separator	suction	trim	speed
store	regulations	choking	well	overflow

According to MARPOL	, bilge water must first pass through an oily
	g discharged
Although bilge wells are helpful to	bilge water, they can be a threat to the
engine room if they	
During a(n) op	eration at night, while at a shipyard in order to
the vessel for	, it was discovered that the engine room
was flooded.	
A(n) creates a	vacuum by the of the water flowing
through it.	
A(n) system is	used to minimise the list of the vessel in port.
Bilge wells are always provided w	ith to prevent solid particles from
entering the bilge pump and	it.
All lines are fitte	ed with non-return valves which do not allow the liquid
to flow back to the bilge	
	ord. The first letter is given. (15 p.)
Do not exceed a p	of 4 bar.
Present r of the n	
Present o of the	main engine is 1,000 KW.
Do not exceed a t	of 20 degrees Celsius.
Present p of pro	
C over to high s	sea suction from low sea suction.
F up the tank with pu	ırified oil.
Slop s is 2 metr	es.
Are starting air c	running and set on auto start (where applicable)?
Make an examination inside the c_	to make sure than no tools, cleaning
rags or bars have been left inside.	

3. Fill in the gaps	with the correct	form of the word i	n parentheses. (2	<u>(0p.)</u>
The	(corrod	e) effect of	(sı	alphur) acid is
counteracted by ad	lequate	(lubricate	e).	
You should chec	k the	(suitable) of l	ube oil in the sum	ıp tank on a regular
basis.				
CCAI 860 is	(;	accept) for slow spec	ed engines.	
There was fast _		(deteriorate) of the	valve seats.	
		(exact) water bu		(mix) or
	(vary) of substan	ces.		
Ash is a solid		(contaminate) in the	fuel.	
	(impure) in the	e fuel can cause dam	age to the fuel pu	mps.
Obtain	(permit	t) from the bridge to	test main engine	ahead and astern on
air.				
) to improve lube oil		ce the
	(possible) of salt	water contamination	n.	
		t		
Cat fines can be	very	(harm) to the	e engine componer	nts.
A bilge well is the	ne most important	t	(residue) collection	on tank of the entire
engine room.				
		(aroma) index is	used as an indica	tion of
(ign	ite) quality.			
Before mixing to	wo lube oils, you	must carry out a		(compatible) test.
4. Match the follo	wing words to th	<u>leir synonyms/defii</u>	<u>nitions. (10 p.)</u>	
	T	T	T	
		comply with		condensation
sounding	fouling	compulsory	precautions	replenish
•				
0 3				
refill				
gradually increase	se in quantity ove	r a period of time		
something that h	as to be done			
the process for c	alculating the total	al quantity of fluid in	n a tank	
		d aft draughts		
		changing to liquid		

5. Match the following parameters tested in marine fuels to their definitions / explanations. (10 p.)

ash	carbon residue	density	sediment	sulphur
flash point	cat fines	water	viscosity	pour point

- -- It indicates the coke-forming tendencies of a fuel:
- -- It is a measure of fuel's resistance to flow:
- -- It represents the incombustible components of fuel oil:
- -- Small particles of the catalyst:
- -- It consists of hydrocarbon sludge and is contained in all fuels:
- -- It must be known for safe transport and storage of the fuel (expressed in degrees centigrade):
- -- The lowest temperature at which the fuel will flow (expressed in degrees centigrade):
- -- Its compounds can be very corrosive to cylinder liners and piston rings:
- -- It is expressed as per cent by volume; it may cause corrosion in the fuel system:
- -- It mainly affects the fuel separation: It is expressed in kilograms per cubic meter.

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

- --- There are two bilge pumping systems.
- --- After the ship has arrived in port, you should engage the steering gear and turn the engine for ten minutes.
- --- Wax can form at temperatures above the pour point.
- --- When the "finished with engine" order is given from the bridge, change over from engine room control to bridge control.
- --- Engines operating on high Sulphur fuels use special lubricants with high TBN to minimize the effects of Sulphur.
- --- Ballast is taken on board in order to increase the list of the ship.
- --- The main purpose of the ballast system is to pump excess water out of the ship.
- --- According to MARPOL, the residue of oil in the water that is pumped out into the sea, must not exceed 15 ppm.
- --- When the ship is about to arrive in port, you must open the dampers for exhaust exhaust gas boiler and close bypass.
- --- The bilge holding tank is a huge tank where bilge water is pumped into from the bilge wells.

7. Choose the correct answ	er. (20 p.)	
Governments and classific	ation have made up rule	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	c) sewage
The bilge system is a		
a) safety optional system	b) non-safety system	c) safety system required by law
is the residue of the	e ship's cargo of fuel oil togeth	er with the water used to clean the
tanks.		
a) Sludge	b) Slop	c) Waste

Depending on and t	rim we choose which b	oilge well the water is colle	ected in.		
a) ballast	b) speed	c) list			
Have indicator	been checked for water or oil leakage?				
a) vents	b) valves	c) cocks			
The box is a kind of:			d particles from		
entering the pumps and chok	ing them.				
a) strum	b) filter	c) sludge			
a) strumDamage toelectric	al equipment occurred	because the engine room v	was flooded by		
2.5 m forward and 3m aft.					
a) sunk	b) emerged	c) submerged			
During pre-departure prepare					
are running, and set t	to auto start.				
a) bottles	b) valves	c) compressors			
Pump up the ai	r bottles to their maxir	num pressure and drain the	em of water.		
a) starting		c) scavenge			
There are many reasons fo	r taking ballast on boar	'd or	ballast once it		
is on board.					
a) changing	b) shifting	c) carrying			
The corners of the lowest _					
a) component	b) compartment	c) department			
Check water and oil	and report re	adiness to bridge.			
a) levels	b) tanks	c) pressures			
Ballast eductors can be eff	iciently	_ to fill/ empty ballast tan	ks quickly.		
a) occurred	b) required	c) utilized			
Cat fines are particularly re	esponsible for	wear.			
a) abrasive By using a	b) contamination	c) self-priming			
By using a	tool you can remov	e vanadium deposits from	the		
turbocharger nozzle ring.					
a) cutting	b) grinding	c) finishing			
Depending on the type of v			s, fore and aft		
peak tanks are usually used f	or ballast water.				
a) hull	b) floor	c) bottom			
The engine must be warme	ed up	by means of the circu	lating / fuel		
pumps.					
a) quickly	b) slowly	c) gradually.			
is used	to indicate and assess t	the stability and cleanlines	s of the fuel.		
a) CCAI	b) total sediment pote	ential c)hydrogen sulphid	le		
are sn	_	alyst used in the refining p			
a) ash	b) aluminium and sili	con c) vanadium			



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1.Fill in the gaps with a word from the list. (15 p.)

anti-heeling	ejector	overboard	drydocking	strainers
ballast	separator	suction	trim	speed
store	regulations	choking	well	overflow

During a(n) operation at night, while at a shipyard in order to
the vessel for, it was discovered that the engine roor
was flooded.
According to MARPOL, bilge water must first pass through an oily
water before being discharged
Bilge wells are always provided with to prevent solid particles from
entering the bilge pump and it.
All lines are fitted with non-return valves which do not allow the liqui
to flow back to the bilge
Although bilge wells are helpful to bilge water, they can be a threat to the
engine room if they
A(n) of the water flowing
through it.
A(n) system is used to minimise the list of the vessel in port.
2. Fill in the gaps with a suitable word. The first letter is given. (15 p.)
Make an examination inside the c to make sure than no tools, cleaning
rags or bars have been left inside.
C over to high sea suction from low sea suction.
F up the tank with purified oil.
Do not exceed a p of 4 bar.
Present r of the main engine are 100 per minute.
Present o of the main engine is 1,000 KW.
Do not exceed a t of 20 degrees Celsius.
Present p of propeller is 90 degrees.
Slop s is 2 metres.
Are starting air c running and set on auto start (where applicable)?

3. Fill in the gaps	with the corre	ct form of the word	in parentheses. (20p.)
		(exact) water b		
	(vary) of subst	ances.		
The	(corre	ode) effect of	(:	sulphur) acid is
counteracted by ac	lequate	(lubrica	te).	
You should chec	ck the	(suitable) of	lube oil in the sur	mp tank on a regular
basis.				
CCAI 860 is		(accept) for slow spe	eed engines.	
There was fast _		(deteriorate) of the	e valve seats.	
They use	(ad	dd) to improve lube o	il quality and redu	ace the
	(possible) of sa	alt water contamination	on.	
N/A in the check	klist stands for i	not	_ (apply).	
Cat fines can be	very	(harm) to th	ne engine compon	ents.
				tion tank of the entire
engine room.				
Calculated Carb	on	(aroma) index i	s used as an indic	ation of
(ign	ite) quality.			
Ash is a solid		_ (contaminate) in the	e fuel.	
	(impure) in	the fuel can cause dar	mage to the fuel p	
Obtain	(perr	nit) from the bridge to	o test main engine	e ahead and astern on
air.				
Before mixing t	wo lube oils, yo	ou must carry out a		(compatible) test.
4. Match the follo	wing words to	their synonyms/def	<u>initions. (10 p.)</u>	
	T	1	Τ.	
		comply with		
sounding	fouling	compulsory	precautions	replenish
C*11]			
•		ver a period of time		
•				
		ir changing to liquid		
making dirty			• • • • • • • • • • • • • • • • • • • •	•••••
the difference be	etween the fore	and aft draughts		
		otal quantity of fluid		
of many uses			• • • • • • • • • • • • • • • • • • • •	

5. Match the following parameters tested in marine fuels to their definitions / explanations. (10 p.)

ash	carbon residue	density	sediment	sulphur
flash point	cat fines	water	viscosity	pour point

- -- It represents the incombustible components of fuel oil:
- -- It is expressed as per cent by volume; it may cause corrosion in the fuel system:
- -- It mainly affects the fuel separation: It is expressed in kilograms per cubic meter.
- -- Small particles of the catalyst:
- -- It consists of hydrocarbon sludge and is contained in all fuels:
- -- The lowest temperature at which the fuel will flow (expressed in degrees centigrade):
- -- Its compounds can be very corrosive to cylinder liners and piston rings:
- -- It must be known for safe transport and storage of the fuel (expressed in degrees centigrade):
- -- It indicates the coke-forming tendencies of a fuel:
- -- It is a measure of fuel's resistance to flow:

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

- --- When the "finished with engine" order is given from the bridge, change over from engine room control to bridge control.
- --- When the ship is about to arrive in port, you must open the dampers for exhaust exhaust gas boiler and close bypass.
- --- The bilge holding tank is a huge tank where bilge water is pumped into from the bilge wells.
- --- There are two bilge pumping systems.
- --- After the ship has arrived in port, you should engage the steering gear and turn the engine for ten minutes.
- --- Wax can form at temperatures above the pour point.
- --- Engines operating on high Sulphur fuels use special lubricants with high TBN to minimize the effects of Sulphur.
- --- Ballast is taken on board in order to increase the list of the ship.
- --- The main purpose of the ballast system is to pump excess water out of the ship.
- --- According to MARPOL, the residue of oil in the water that is pumped out into the sea, must not exceed 15 ppm.

7. Choose the correct answer. (20 p.)

Depending on	_ and trim we choose whi	ch bilge well the water is collected:	in.
a) ballast	b) speed	c) list	
Have indicator	been checked for water or oil leakage?		
a) vents	b) valves	c) cocks	
The box is a k	aind of filter on the suction	line head which prevents solid part	icles from
entering the pumps ar	nd choking them.		
a) strum	b) filter	c) sludge	
Damage to	electrical equipment occur	red because the engine room was flo	ooded by
2.5 m forward and 3m	ı aft.		
a) sunk	b) emerged	c) submerged	

During pre-departure preparations, you must check if the starting air				
are running, and set t	o auto start.			
a) bottles	b) valves	c) compressors num pressure and drain them of water.		
Pump up the ai	r bottles to their maxim	num pressure and drain them of water.		
a) starting	b) control	c) scavenge		
Governments and classific	ation have made	up rules which have to comply with		
international SOLAS rules.				
a) societies		c) organizations		
		d lock direct overboard discharge.		
a) sludge	b) garbage	c) sewage		
The bilge system is a				
a) safety optional system	b) non-safety system	c) safety system required by law		
is the residue of the	ship's cargo of fuel oil	together with the water used to clean the		
tanks.				
a) Sludge		c) Waste		
There are many reasons for	r taking ballast on board	d or ballast once it		
is on board.				
a) changing	b) shifting	c) carrying		
The corners of the lowest _	of a ship constit	ute a bilge.		
a) component	b) compartment	c) department		
are sm	nall particles of the cata	lyst used in the refining process.		
	b) aluminium and silic			
Check water and oil	and report rea	diness to bridge.		
a) levels	b) tanks	c) pressures		
Depending on the type of v	essel, the double	tanks, wing tanks, fore and aft		
peak tanks are usually used fe	or ballast water.			
a) hull	b) floor	c) bottom		
The engine must be warme	ed up	by means of the circulating / fuel		
pumps.				
a) quickly	b) slowly	c) gradually.		
is used	to indicate and assess the	ne stability and cleanliness of the fuel.		
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Ballast eductors can be eff	iciently	_ to fill/ empty ballast tanks quickly.		
a) occurred	b) required	c) utilized		
Cat fines are particularly responsible for wear. a) abrasive b) contamination c) self-priming				
a) abrasive	b) contamination	c) self-priming		
By using a		e vanadium deposits from the		
turbocharger nozzle ring.				
a) cutting	b) grinding	c) finishing		



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1.Fill in the gaps with a word from the list. (15 p.)

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ballast	separator	suction	trim	speed
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A(n) of the water flowing
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to flow back to the bilge
A(n) system is used to minimise the list of the vessel in port.
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entering the bilge pump and it.
2. Fill in the gaps with a suitable word. The first letter is given. (15 p.)
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Present r of the main engine are 100 per minute.
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Make an examination inside the c to make sure than no tools, cleaning
rags or bars have been left inside.
Slop s is 2 metres.
Are starting air c running and set on auto start (where applicable)?
Present p of propeller is 90 degrees.
C over to high sea suction from low sea suction.
F up the tank with purified oil.

3. Fill in the gaps	with the correct for	orm of the word i	n parentheses. (20	<u>)p.)</u>
	(ac			
There was fast _	(deteriorate) of the	valve seats.	
Bilge water is no	ot	_ (exact) water bu	t a	(mix) or
	(vary) of substance	es.		
The	(corrode)	effect of	(su	lphur) acid is
counteracted by ad	lequate	(lubricate	e).	
You should chec	ck the	(suitable) of l	ube oil in the sum	p tank on a regular
basis.				
They use	(add) t	to improve lube oil	quality and reduc	e the
	(possible) of salt v			
N/A in the check	dist stands for not _		(apply).	
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(ign				
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4 3 5 4 3 4 1 6 11		• /1.00	(40)	
4. Match the follo	wing words to the	<u>ır synonyms/defir</u>	<u>ntions. (10 p.)</u>	
0.0000001040			4	l son donestion
accumurate	versatile	compry with	umm	condensation
sounding	fouling	compulsory	precautions	repienisn
C11				
•				
<u> </u>	an in assentity assen			
gradually increas				
	uresetween the fore and			
	as to be done			
the process for c	alculating the total	quantity of fluid in	······································	•••••
the process of sta	eam or warm air ch	anging to liquid	•••••	•••••
are process of su	cam or warm an Ch	anging to nquid		•••••

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- -- Small particles of the catalyst:
- -- The lowest temperature at which the fuel will flow (expressed in degrees centigrade):
- -- Its compounds can be very corrosive to cylinder liners and piston rings:

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

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7. Choose the correct answer. (20 p.)

One hour before arriving in	n port, you must shut and lock	direct overboard discharge.
a) sludge	b) garbage	c) sewage
The bilge system is a		
a) safety optional system	b) non-safety system	c) safety system required by law
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is the residue of the	ship's cargo of fuel oil togeth	er with the water used to clean the
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of filter on the suction l	line head which prevents solid particles from	om
b) filter	c) sludge	
trical equipment occurre	ed because the engine room was flooded b	y
b) emerged	c) submerged	
nd trim we choose which	h bilge well the water is collected in.	
b) speed	c) list	
been chec	cked for water or oil leakage?	
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reparations, you must cl	neck if the starting air	
set to auto start.		
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_ air bottles to their max	ximum pressure and drain them of water.	
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and report	readiness to bridge.	
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s for taking ballast on bo	oard or ballast once	it
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efficiently	to fill/ empty ballast tanks quickly.	
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y responsible for	wear.	
b) contamination	c) self-priming	
e small particles of the c	atalyst used in the refining process.	
b) aluminium and s	cilicon c) vanadium	
b) slowly	c) gradually.	
sed to indicate and asses	ss the stability and cleanliness of the fuel.	
b) total sediment p	otential c)hydrogen sulphide	
b) grinding	c) finishing	
of vessel, the double	tanks, wing tanks, fore and aft	t
ed for ballast water.		
b) floor	c) bottom	
	b) filter trical equipment occurre b) emerged did trim we choose which b) speed been check b) valves reparations, you must che set to auto start. b) valves air bottles to their man b) control and report b) tanks s for taking ballast on both b) shifting est of a ship con b) compartment efficiently b) required ly responsible for b) contamination e small particles of the c b) aluminium and sharmed up b) slowly sed to indicate and assess b) total sediment p tool you can remo	b) filter c) sludge trical equipment occurred because the engine room was flooded by b) emerged c) submerged and trim we choose which bilge well the water is collected in. b) speed c) list been checked for water or oil leakage? b) valves c) cocks reparations, you must check if the starting air set to auto start. b) valves c) compressors air bottles to their maximum pressure and drain them of water. b) control c) scavenge and report readiness to bridge. b) tanks c) pressures s for taking ballast on board or ballast once b) shifting c) carrying est of a ship constitute a bilge. b) compartment c) department efficiently to fill/ empty ballast tanks quickly. b) required c) utilized by responsible for wear. b) contamination c) self-priming e small particles of the catalyst used in the refining process. b) aluminium and silicon c) vanadium armed up by means of the circulating / fuel b) slowly c) gradually. sed to indicate and assess the stability and cleanliness of the fuel. b) total sediment potential c)hydrogen sulphide tool you can remove vanadium deposits from the b) grinding c) finishing of vessel, the double tanks, wing tanks, fore and affect of ballast water.

