MERCHANT MARINE ACADEMY OF MACEDONIA
SCHOOL OF ENGINEERS

Course: Maritime English
Academic year: 2013 – 2014 **Exam period: February**
Semester: ST (Retakes) **Date:**
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Student's full name:
A.Γ.M.:

FINAL EXAM

1. Fill in the gaps using the words below. (20 p.)

barge *pour point* *dismount* *carbon* *inlet*

refinery *piston* *emergency* *acids* *bunkering*

1. The fuels which go through extensive _____ processing are left with high _____ content.
2. During _____ the Chief Engineer takes precautions against pollution.
3. The alkaline lubricating oils neutralize the _____.
4. Two-way communication with the _____ should be established before bunkering starts, including _____ stop.
5. _____ indicates the ability of a fuel to flow at cold operating temperatures.
6. The centrifuge should always be operated with a(n) _____ temperature of 98 degrees C.
7. When you want to check the cylinder liner, you should first _____ the cylinder cover, the piston cleaning ring and the _____.

2. Fill in the gaps using the words below. (20 p.)

abrasive *maintenance* *sulphur* *manufacturers* *leaks*

liquid *ignition* *inspect* *overhauled* *viscosity*

1. Cetane number indicates the _____ quality of a fuel.
2. The engine should be _____and cleaned at regular intervals.
3. _____ cylinder liner wear may be caused by hard particles which enter the cylinder via the fuel oil.
4. _____ is the measure of the resistance of a _____ to movement.
5. Engine _____ set the acceptable deflection limits.
6. The checking and _____ schedules indicate the intervals at which it is appropriate to _____ the individual components of the engine.
7. The _____ contained in a fuel is responsible for 'low temperature' corrosion which attacks cylinder liners and piston rings.
8. Pipes must be pressure tested for possible _____.

3. Fill in the gaps with a suitable form of the words in parentheses. (15 p.)

1. This system will improve the _____ **(distribute)** of lubricating oil on the liner surface.
2. _____ **(attend)** should be paid to all combustible materials in the machinery space.
3. Sulphur, carbon residues, ash and water are all _____ **(harm)** materials in the fuel oils.
4. The Chief Engineer can check the level of tanks by means of a remote level _____ **(detect)** system.
5. What are the entry _____ **(require)** for merchant marine academies?
6. The _____ **(classify)** of the lube oils according to their viscosity is an important parameter for their use.
7. _____ **(add)** checks are needed to make sure the lube oil system centrifuge is working properly.
8. You have to make _____ **(adjust)** for the engine to work properly.
9. They checked the _____ **(align)** of the crankshaft.
10. Maintain the proper temperature to avoid the _____ **(condense)** of the steam.
11. Fuels often contain _____ **(add)** to improve their quality.
12. The water _____ **(separate)** ability of the fuel oil is ensured by limiting the _____ **(dense)** for reasons of centrifuging.
13. As heavy fuel oil is more _____ **(viscosity)** than marine diesel oil, it cannot be pressed through the _____ **(inject)** without proper treatment.

4. Match the words in column A to their synonyms in column B, and write the pairs below. (10 p.)

A	**B**
discard	micro-seizure
convert	serious disagreement and argument
suitable	influence
bores	provide
circumferential	holes
scuffing	throw away
implement	on the sides/perimeter
supply	put into force
affect	appropriate
conflict	turn into

_____
_____
_____
_____
_____
_____
_____
_____
_____
_____

5. How do the following parameters of fuels affect the combustion process and/or the engine parts? (15 p.)

1. Water:

_____

_____

2. Carbon residue:

_____

_____

3. Sulphur:

_____

_____

4. Aluminium and silicon:

_____

_____

6. Choose one of the two topics and write a paragraph of about 100 words. (20 p.)

a) Discuss why, when and how you take crankshaft deflections.

b) Discuss some of the procedures which, according to MARPOL, must be followed so as to minimize the risk of spillages and leakages during bunkering.