

**MERCHANT MARINE ACADEMY OF MACEDONIA
SCHOOL OF ENGINEERS**

STUDENT'S FULL NAME:

STUDENT NUMBER:

GROUP:

Academic year: 2013-2014

Exam period: September

Date: 5/9/2014

Semester: D

Instructor's name: Dr M. Tsompanoglou

FINAL TEST in English (Retakes)

1. Fill in the gaps with the right word from the list. (20 points)

drain, through, gudgeon, led, screw, pressure, filtered, speed, crankcase, in

The oil is taken from the _____(1) tank usually underneath the engine by a _____(2) type pump. It is cooled, _____(3) and supplied to the engine via the oil inlet pipe at a _____(4) of about 4 bar. On a medium _____(5) engine the oil is supplied _____(6) drillings in the engine frame to the crankshaft main bearings. Drillings _____(7) the crankshaft then take the oil to the crankpin bearing. The oil is then _____(8) up the connecting rod to the piston or _____(9) pin and from there to the piston cooling before returning to the _____(10).

2. Choose the correct answer (15 points)

1. The element which causes oxidation to the engine is

a) silicon b) carbon c) sulphur

2. The governor

a) injects the fuel b) controls the amount of fuel injected to the engine c) operates the fuel pumps

3. Change in the bearing geometry

a) will obstruct the oil film formation b) will cause fouling c) will trigger an alarm in the system.

4. Thick particles sink down in the

a) service tank b) settling tank c) buffer tank

5. Fuel consists mainly of carbon and

a) helium b) lithium c) hydrogen

6. The fuel needs heating when it is close to its

a) flash point b) pour point c) injection point

7. Scuffing is

- a) dust b) soot c) scraping

8. VIT is

- a) Various included tuning b) Variable injection tolerance c) Variable injection timing

9. The plunger has a:

- a) flange b) insulation band c) helix

10. The VIT rack is connected to the:

- a) governor b) turbocharger c) sump tank

3. Match the synonyms. (15 points)

- | | |
|----------------|--------------|
| 1. Examine | a. Check |
| 2. Remove | b. Result |
| 3. Excessive | c. State |
| 4. Condition | d. Measure |
| 5. Calibrate | e. Extreme |
| 6. Contaminate | f. Finally |
| 7. Purpose | g. Pollute |
| 8. Eventually | h. Intention |
| 9. Consequence | i. Gather |
| 10. Accumulate | j. Withdraw |

4. Complete the sentences with WHO, WHICH, WHOSE (10 points)

I don't know the people _____ live there.

The hotel _____ caught fire has been rebuilt.

What was the name of your friend _____ tent we borrowed?

You should choose the clothes _____ suit your personality.

My friend Jack _____ parents live in Glasgow invited me to spend Christmas in Scotland.

Tony works for a company _____ makes fridges.

My bike, _____ I had left at the gate, had disappeared.

The woman _____ lives next door is a dentist.

He is the kind of person _____ loves an argument.

She has a job _____ most people would hate.

5. Complete the sentences in the passive voice, using the verbs in parentheses. (10 points)

Coats _____ in the cloakroom. (must leave)

This bag _____ in the bus yesterday. (find)

This dress _____ in hot water. (must not wash)

This repair _____ in time if you didn't help me. (not finish)

These problems _____ today. (cannot solve)

This room _____ now. (clean)
The letters _____ by the postman at 8 every day. (deliver)
The message _____ tomorrow. (send)
Patients _____ well in that hospital. (not treat)
This building _____ since the 1940s. (not reconstruct)

6. Transform into Passive voice. (10 points)

We store the fuel in the bunkers.
The fuel

The piston compresses the air in the cylinder.
The air

The fuel vapors produce a flash.
A flash.....

You must regrind the fuel valve.
The fuel valve

The chief engineer disengaged the turning gear.
The turning gear

7. Write a report to the Superintendent of your company describing an incident concerning a damage that occurred and the repairs you made. (100-150 words). **(15 points)**