

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

**Course: Maritime English**  
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**Instructor: A. Birbili**  
**Student's full name:**  
**A.Γ.M.:**

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**FINAL EXAM**

**1. Fill in the gaps using the words below. There are two extra words. (17.5 p.)**

*envelope crankcase requires radiant extracted pressure stringent fan  
combustion temperature extremes cooling spring reference applications  
motor measuring*

- \_\_\_\_\_ air refers to the flow of air that removes \_\_\_\_\_ heat from the engine.
- The ship's \_\_\_\_\_ and heating and cooling systems should be designed for the \_\_\_\_\_ of ambient conditions.
- All products and \_\_\_\_\_ used in marine insulation are tested against \_\_\_\_\_ safety standards.
- The \_\_\_\_\_ relief doors are \_\_\_\_\_-loaded valves which lift up in case there is any rise of \_\_\_\_\_ inside the crankcase.
- An oil mist detector consists of two tubes: the \_\_\_\_\_ tube and the \_\_\_\_\_ tube which has a connection for the oil mist \_\_\_\_\_ from the crankcase with the help of an electric extractor \_\_\_\_\_.
- \_\_\_\_\_ air describes the air the engine \_\_\_\_\_ to burn fuel.

**2. Fill in the gaps using the words below. There are two extra words. (17.5 p.)**

*centrifugal spring sweat viscosity shaft fuel slip gases flyweights dilution  
complete ventilated alignment water heating device pitch*

- Bulk cargoes are \_\_\_\_\_ to prevent the formation of cargo \_\_\_\_\_ which could damage the cargo, to reduce the harmful \_\_\_\_\_ of the cargo and to remove hazardous \_\_\_\_\_ from the cargo spaces.
- The principal control \_\_\_\_\_ on any engine is the governor which works on the principle of \_\_\_\_\_ force.
- Propeller \_\_\_\_\_ is the displacement a propeller makes in a \_\_\_\_\_ revolution of 360 degrees.
- The \_\_\_\_\_ fitted on the governor spindle acts to return the \_\_\_\_\_ to their original position.
- \_\_\_\_\_ leakage into the lubricating oil system will cause \_\_\_\_\_ of the lubricating oil with a consequent reduction in \_\_\_\_\_ and lubricating properties.
- The main \_\_\_\_\_ is supported and held in \_\_\_\_\_ by bearings.

**3. Fill in the gaps with a word of your own choice. (20 p.)**

- Structural \_\_\_\_\_ is required to thermally separate the compartments within a ship.
- A propeller which turns clockwise when viewed from aft is considered \_\_\_\_\_.
- You must thoroughly \_\_\_\_\_ the fuel before using it and you must keep the filters clean and intact.
- The presence of oil mist in the crankcase reduces the \_\_\_\_\_ point of the oil, allowing it to catch fire in presence of a \_\_\_\_\_ spot.
- Crankcase \_\_\_\_\_, which are the result of high operating temperatures, have been the cause of many fatal incidents.
- Rapid cooling may \_\_\_\_\_ a cylinder liner and head or may cause a \_\_\_\_\_ to seize within a cylinder.
- \_\_\_\_\_ is the formation and bursting of vapour bubbles near a moving propeller \_\_\_\_\_.

**4. Complete the sentences with the appropriate form of the words in parentheses. (15 p.)**

- The screw-type propeller is the \_\_\_\_\_ (**propel**) device used in almost all ships.
- It is important to carry out routine \_\_\_\_\_ (**inspect**) of the OMD to prevent false alarms.
- When fuel reaches the \_\_\_\_\_ (**inject**) system, it should be \_\_\_\_\_ (**absolute**) free of water and foreign matter.
- If the \_\_\_\_\_ (**concentrate**) of oil mist in the measuring tube rises, the \_\_\_\_\_ (**intense**) of light reaching the photo-electric cell reduces.
- The situation in the Middle East is \_\_\_\_\_ (**explode**).
- The chief engineer got a \_\_\_\_\_ (**consider**) raise in his salary last month.
- Hold \_\_\_\_\_ (**ventilate**) are exposed to sea water and spray on deck and require proper \_\_\_\_\_ (**attend**).
- The workers used a lot of \_\_\_\_\_ (**explode**) to demolish the old building.
- International regulations try to reduce the \_\_\_\_\_ (**emit**) of ships' fuels.
- The pneumatic governor is \_\_\_\_\_ (**respond**) to the air flow in the intake manifold of the engine.
- When the temperature of steam falls below \_\_\_\_\_ (**permit**) limits, \_\_\_\_\_ (**condense**) takes place.

**5. Write the opposites of the following words. (15 p.)**

- |                |              |
|----------------|--------------|
| -- attention   | -- similar   |
| -- include     | -- equality  |
| -- efficient   | -- obey      |
| -- manned      | -- compose   |
| -- balance     | -- important |
| -- harmful     | -- regular   |
| -- equal       | -- ingress   |
| -- experienced |              |

