

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

Course: Maritime English
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Date:
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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.)

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

