

Merchant Marine Academy of Macedonia  
 School of Engineers  
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## FINAL EXAM IN MARITIME ENGLISH

### 1. Complete the text using the words given. (12 p.)

*disperse, sodium, fines, separate, components, efficiency, sludge, incompatibility, abrasive, cleanliness, particles, after*

-- Homogenisers are used to \_\_\_\_\_ any water and \_\_\_\_\_ which could remain in the fuel after centrifuging. A homogenizer placed \_\_\_\_\_ the centrifuge will render fresh water harmless to the engine. It is also a good way to deal with \_\_\_\_\_ problems. Homogenisers installed before the fuel centrifuge can reduce the \_\_\_\_\_ of the centrifuge and thus, the \_\_\_\_\_ of the fuel delivered to the engine. The \_\_\_\_\_ will not be removed from the fuel in the form of salt water. The cat \_\_\_\_\_ and other \_\_\_\_\_ material might be split up into very small \_\_\_\_\_, which are very difficult for the centrifuge to \_\_\_\_\_, and which will still have a harmful effect on the engine \_\_\_\_\_.

### 2. Fill in the gaps with a word from the list. There are two extra words. (12 p.)

*strainers, non-return, ballast, discharged (p.p), return, ejector, list, draught, pumps, overboard, separator, trim, well, vacuum*

- Bilge wells are periodically emptied by pumping out the bilge with the help of bilge \_\_\_\_\_.
- All suction lines are fitted with \_\_\_\_\_ valves which do not allow the liquid to flow back to the bilge \_\_\_\_\_.
- A(n) \_\_\_\_\_ creates a \_\_\_\_\_ by the speed of the water flowing through it.
- Bilge wells are always provided with \_\_\_\_\_ to prevent solid particles from entering and choking the bilge pump.
- A(n) anti-heeling system is used to minimise the \_\_\_\_\_ of the vessel in port.
- According to MARPOL regulations, bilge water must first pass through an oily water \_\_\_\_\_ before being \_\_\_\_\_ overboard.
- During a(n) \_\_\_\_\_ operation at night, while at a shipyard in order to \_\_\_\_\_ the vessel for drydocking, it was discovered that the engine room was flooded.
- When the PPM of oil particles in the mixture comes down to the permissible limit, it can be thrown \_\_\_\_\_.

### 3. Supply the missing words. The first letter is given. (15 p.)

- The engine must be warmed up gradually by means of the circulating p\_\_\_\_\_
- **D**\_\_\_\_\_ is related to fuel quality.



- a. pour point                                      b. flash point                                      c. dew point  
 -- It detects all acids present and if it is increased, it may indicate other harmful substances.  
 a. acid number                                      b. base number                                      c. cetane number

**6. Match the words from the list to their synonyms/definitions below. (12 p.)**

*accumulate, alter, wear and tear, excess, saline, condensation, contaminate, replenish, impede, heeling, sounding, dismantle*

- change:  
 -- more than necessary:  
 -- the process of steam turning into liquid:  
 -- damage due to continuous use:  
 -- take apart, disassemble:  
 -- stop:  
 -- refill:  
 -- the process for calculating the total quantity of fluid in a tank:  
 -- gradually increase in quantity over a period of time:  
 -- list:  
 -- pollute:  
 -- with salt:

**7. Complete the sentences with the correct form of the words in parentheses. (12 p.)**

- Poor combustion can cause \_\_\_\_\_ (**accumulate**) of \_\_\_\_\_ (**viscosity**) residues in the scavenging air chambers.  
 -- Obtain \_\_\_\_\_ (**permit**) from the bridge to test main engine ahead and astern.  
 -- The \_\_\_\_\_ (**deep**) and the number of bilge wells depend on the ship's size, its capacity and the amount of bilge it generates.  
 -- Small amounts of water can accumulate in the ship as a result of \_\_\_\_\_ (**condense**), \_\_\_\_\_ (**leak**) of pipes, washing or rain.  
 -- Ballast water helps the ship's \_\_\_\_\_ (**stable**).  
 -- \_\_\_\_\_ (**install**) of homogenizers before the centrifuge is not advisable.  
 -- *N/A* in the checklist stands for *not* \_\_\_\_\_ (**apply**).  
 -- Water in the lube oil system can cause \_\_\_\_\_ (**corrode**).  
 -- The actual fuel \_\_\_\_\_ (**consume**) depends on the \_\_\_\_\_ (**efficient**) of the engine.

**8. Complete the sentences with an appropriate preposition. (12 p.)**

- The temperature is too high, it is 20 degrees \_\_\_\_\_ normal.  
 -- Decide whether the harbour manoeuvres should be carried \_\_\_\_\_ on diesel oil or \_\_\_\_\_ heavy fuel oil.  
 -- Warm \_\_\_\_\_ the engine gradually.  
 -- Call the Watch Engineer if the revolutions of the main engine are \_\_\_\_\_ 90 \_\_\_\_\_ minute.  
 -- Start \_\_\_\_\_ all cooling water and lub-oil pumps.  
 -- Fuel is known to form deposits \_\_\_\_\_ hot spots, i.e. in the piston undercrown space.  
 -- Some cylinder oil leaks \_\_\_\_\_ the stuffing box, down into the system lube oil sump.  
 -- Have all the preparations been done prior \_\_\_\_\_ arrival in port?  
 -- We have to transfer water \_\_\_\_\_ number 2 tank \_\_\_\_\_ number 4 tank.

**GOOD LUCK!**

