

Final Exam

(Για μεταφορείς που παρακολούθησαν το μάθημα μέχρι και το ακαδ. έτος 2012-13)

A. Fill in the gaps using the words below. There are two extra words. (10x1.5=15 points)

*hull blade helicoidal temperature cavitation thrust
total-loss boss external pressure internal cylinder*

- The propeller consists of a(n) _____ with several blades of _____ form attached to it.
- _____ lubrication of crosshead engines is a(n) _____ system.
- Diesel engines rely on some _____ source of power for starting.
- _____ can occur as a result of _____ variations on the back of a propeller _____.
- The _____ block transfers the thrust from the propeller to the _____ of the ship.

B. Fill in the gaps using the words below. There are two extra words. (10x1.5=15 points)

*cold sufficient crack seizing angle feed cooling
previous contraction slip theoretical pitch*

- Large amounts of _____ water should not be added to the engine if the engine is still hot from _____ operation.
- Sudden cooling can _____ the cylinders or cylinder heads and may cause unequal _____ of the structural and working parts and lead to _____ of the pistons.
- Propeller _____ is the difference between actual and _____ travel resulting from a necessary propeller blade _____ of attack.
- The engineer must inspect the engine for a _____ supply of fuel oil, lube oil and _____ water.

C. Fill in the gaps with a word of your own choice. (10x2=20 points)

- The lubrication system provides a supply of oil to the _____ parts of the engine. It enables the formation of a _____ of oil between them to minimize _____ and wear.
- The cylinder oil burns and is partly scraped down to the _____ air space where it is drained.
- Explosion _____ valves or doors are fitted in the _____ as a practical protection against explosions.
- In mechanical governors a _____ assembly is used to detect engine _____.
- The lube oil is stored in the _____ or drain tank.
- The use of inappropriate lube oil may cause carbon _____.

D. Fill in the gaps with a word that begins with the letter given. (10x1.5=15 points)

- Inspect the fire **e** _____ for full charge, security and cleanliness of valves and **n** _____.
- Pistons **r** _____ and compress the air drawn into the cylinder.
- S** _____ is the most misunderstood of all propeller terms.
- The tailshaft has a flanged face where it joins the **i** _____ shafting.
- A propeller which turns **c** _____ when viewed from aft is considered right-handed.
- C** _____ is the forming and bursting of vapour-filled bubbles on the back of a propeller **b** _____.
- More serious damage should be repaired by **w** _____.
- Accessories should be inspected for **I** _____ connections.

E. Fill in the gaps with a suitable form of the words in parentheses (15x1=15 points)

- The thrust block is a part of the main _____ engine. (propel)
- The hotel was in a very bad _____. (locate)
- The lube oil can also be used as a _____. (cool)
- The _____ of the ship was very slow. (move)
- I didn't know the way so I asked for _____. (direct)
- A speed selector changes the _____ of the spring. (compress)
- The lube oil _____ (consume) is a significant _____ (economy) factor for the ship.
- A speed sensing _____ (arrange) and a hydraulic unit are the _____ (base) systems of a governor.
- If you want to get a job in this company you have to fill in an _____ first. (apply)
- This spare is not _____, we need an original one. (suit)
- A _____ (reduce) in speed lowers the spindle.
- If the _____ (press) in the lube oil system is too low, an alarm will sound.
- There are _____ designs of valves. (vary)

F. Write a paragraph on either a) or b) (20 points)

- a)The importance of lubrication for diesel engines.
- b) Safety devices that prevent fires, explosions, etc. in the engine room.

GOOD LUCK!!!