Merchant Marine Academy of Macedonia
School of Engineers
Semester: D
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Name:
Student Number:

Final Test

1. Supply the missing words from the ones given in italics (20 points)

pistons, genuine, load, trim, incidents, accident, efficiency, centrifugal, rotary, draught, exhaust, wave, withstand.

The amount of useful energy that an engine can produce is dependent on 2 factors: the amount of fuel that can be burnt per cycle and the
2. Supply the missing past participles from the ones given in italics (15 points) converted, worn, increased, evacuated, assembled, caused, scrutinized, detected, overheated, slowed down
When there is danger of explosion, the engine room should be

3. Complete the sentences with the correct form of the words in parentheses. (21 points)
Water in the lube oil system may lead to (corrode)
This is a highly mixture. (flame)
Poor combustion can cause excessive of residues in the scavenging air
chambers, which can cause fire. (accumulate, viscosity)
We took the for the fuel. (sound)
The tapered disk of the oil had to be replaced, because it was broken. (separate)
Scavenge fires can be very (danger)
are fitted in separate rooms for a reason: fire. (purify)
We had to add (cool) to the cylinder head in order to reduce excessive heat
during (ignite).
We need to make (adjust) to the speed.
A (centrifuge) air compressor is also called a dynamic compressor.
Nails are a quick and long-lasting (fasten).
Ballast water helps the ship's (stable).
4. Supply the missing words (15 points)
A basic part of the cycle of an il combustion engine is the supply of fresh air and the removal of exhaust gases.
A conductor allows electricity to flow and an ir stops electricity from flowing. A 10 cylinder engine with a bore of 850mm and a se of 2.35m must burn 1kg of fuel per rn in order to deliver 38500 kW when running at 105 RPM.
The turbocharger uses some of the energy of the et gases. In an air
cr, air is compressed by pulling in atmospheric air, reducing its volume and
increasing its pe.
The diesel cycle has the highest thermal ey of any regular internal or external
cn engine, due to its very high compression ratio.
Lubrication reduces fn between moving parts.
5. Match the words from the list to their synonyms below. (15 points)
accumulation, unlagged, malfunction, estimate, durable, insufficien, staff, defective, alloy, due to
faulty:
not enough:
build-up:
mix of metals:
personnel:
not insulated:
bad operation:
strong, long-lasting:
because of
calculate

6. Turn the following sentences into Passive Voice. (14 points)

1. We must repair the crankshaft. The crankshaft
2. The second engineer has already replaced the piston rings.
3. The piston compresses the air.
4. The chief engineer disengaged the turning gear.
5. I will clean the valves tomorrowtomorrow.
6. Shipbuilders divide a ship into several compartments into several compartments.
7. You must use a scraper to remove scale to remove scale.