

MERCHANT MARINE ACADEMY OF MACEDONIA

SCHOOL OF ENGINEERS

STUDENT'S FULL NAME: _____

A.Γ.Μ.: _____

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FINAL TEST IN ENGLISH

1. Fill in the gaps with the appropriate word from the list. There are some extra words. (20 p.)

A.

*furnace place operation feedwater tube energy
boiler chamber combustion mountings space air*

A boiler is used to heat _____ in order to produce steam. The _____ released by the burning fuel in the boiler _____ is stored as temperature and pressure in the steam produced. All boilers have a furnace or combustion _____ where fuel is burnt to release its energy. _____ is supplied to the boiler furnace to enable _____ of the fuel to take _____. There must be a number of fittings or _____ which ensure the safe _____ of the boiler. Two basically different types of _____ exist, namely the watertube and the firetube.

B.

*two points connecting rod operates injecting stroke
internal piston external revolution air sequence*

The diesel engine is a type of _____ combustion engine which ignites the fuel by _____ it into hot, high-pressure _____ in a cylinder. It _____ with a fixed _____ of events, which may be done either in four strokes or _____, a stroke being the travel of the _____ between its extreme _____. Each _____ is accomplished in half a _____ of the crankshaft.

2. Underline the correct choice. (10 p.)

_____ are used to reduce friction between two metals.

cams

blades

bearings

_____ tonnage is the carrying capacity of a vessel in tons.

- net-weight
- underdeck
- dead-weight

The CO2 indicator measures the percentage of the _____ gases that go up the funnel.

- condensation
- combustion
- steam

The unit of electrical resistance is the _____.

- Volt
- Ohm
- Ampere

The ___ is used to heat the wet steam before it enters the main steam pipe.

- turbocharger
- economiser
- superheater

Steam is _____.

- invincible
- invisible
- invariable

A material which offers low resistance to an electric current is a(n) _____.

- breaker
- insulator
- conductor

The lubricating grease is a mixture of petroleum oil and _____.

- soap
- paraffin
- water

We use a _____ to permit the flow of the fluid in one direction only.

- reducing valve
- check valve
- regulating

The piston _____ inside the cylinder.

- reciprocates
- rotates
- oscillates

3. Match the words to their synonym or explanation. Write the pairs in the lines below. There is an extra word. (10 p.)

crosshead	empty
gauge	set free
collision	the main component of a diesel engine which transmits power to the flywheel
water jacket	meter, indicator
release	coil
gudgeon pin	connects the piston rod to the connecting rod of a reciprocating engine
bedplate	when two ships crash
loop of wire	maintains the desired temperature of the cylinder
hollow	shows the presence of sea water in the fresh water system
salinometer	a structure which holds the crankcase and supports the cylinder block
crankshaft	

4. Match the words in column A to appropriate ones in column B to form compound nouns. (10 p.)

A	B	
throttle	bearing	_____
scavenge	valve	_____
push	head	_____
cross	tight	_____
cylinder	shaft	_____
flow	ports	_____
air	meter	_____
cam	rod	_____
crank	liner	_____
ball	case	_____

5. Put the verbs into either the Simple Present or the Present Continuous (10 p.)

A crane _____ (lift) the cargo on board the ships.

The men are in the holds; they _____ (check) the ventilation system and the lights.

A ship _____ (moor) at a berth by the quay.

Look! The engineers _____ (overhaul) the engines and the pipelines _____ (fill) the fuel tanks with fuel.

The Second Mate _____ (supervise) work on deck and he _____ (study) the stowage plan at the moment.

On a cargo vessel you _____ (usually/store) cargo in the holds or on the deck.
 The crane _____ (load) the containers on board now.
 It is important to secure or lash the cargo so that it _____ (not/shift) during a voyage.

7. Complete the gaps with *some* or *any* (8 p.)

We haven't got _____ fuel in the tanks.
 The steward brings _____ milk and sugar in the officers' lounge.
 Are there _____ extra chips?
 There aren't _____ screwdrivers on the workbench.
 On _____ very large MVs there can be as many as seven engineers.
 Would you like . _____ cheesecake?
 Is there . _____ coffee left?
 Can I have _____ chocolate cake?

8. Complete the dialogue. There are three (3) extra words (10p.)

side bill welcome dessert recipe all main course
appetizer order like dressing menu mustard

- May I take your _____?
 - Yes, please.
 - Do you want a(n) _____?
 - No, just a chef's salad with mayonnaise _____.
 - What would you have as a(n) _____?
 -I would _____ a steak.
 - Anything on the _____?
 - Sure, bring me some chips and some _____, please.
 - Would you like a(n) _____?
 -Certainly, I wish to try the chocolate cake.
 -Is that _____?
 -Yes, thank you very much.
 - You are _____!

9. Fill in the table with words from the list. (7 p.)

honey milk flour soup icecream crisps jam apple juice
sugar salad orange juice mustard

A bowl of	
A jar of	
A bag of	
A carton of	

10. Answer any three (3) of the following questions. (15 p.)

1. What is the use of check valves?
2. What does a steam turbine consist of?
3. a) What is the principle of operation of a diesel engine?
b) Write the names of the strokes of a 4-stroke diesel engine.
4. Name the main parts of a motor.
5. How many basic types of boilers are there?
6. What are the similarities between an electric motor and an electric generator?

GOOD LUCK!!!