

C. Fill in the gaps with the appropriate word from the list. There are some extra words. (10 p.)

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

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 different types of _____ exist, namely the water-tube and the fire-tube.

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

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

_____ are used to reduce friction between two metals.

cams
blades
bearings

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

_____ 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

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

breaker
insulator
conductor

E. Circle the correct choice. (10 p.)

1. *Have you ever worked / Do you ever work* on a tanker?
2. They *were sailing / are sailing* to Calcutta when the pirates *attack / attacked* them.
3. He *has been / was* Captain on the "Andromeda" since 2002.
4. When the fire alarm *has rung / rang* the Chief Engineer *was checking / checks* the suction pump.
5. The 3rd Mate *demonstrates / is demonstrating* the use of fire extinguishers at the moment.
6. The Chief Engineer always *is spending / spends* his summers on Ios.
7. The vessel *has left / left* the dry dock two days ago.
8. They *are sailing / were sailing* the Corinth Canal now.

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

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

G. 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 _____!

H. Fill in the table with words from the list. (10 p.)

sugar salad orange juice mustard apple juice

honey milk flour soup icecream crisps jam

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

I. Answer any three (3) of the following questions. (20 p.)

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

GOOD LUCK!!!

