



**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 CO<sub>2</sub> 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 3<sup>rd</sup> 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!!!**

