

**MERCHANT MARINE ACADEMY OF MACEDONIA
SCHOOL OF ENGINEERS**

Course: Maritime English
Academic year: 2018 – 2019
Semester: A
Name:
Student number:
Instructors: Dr M. Tsompanoglou

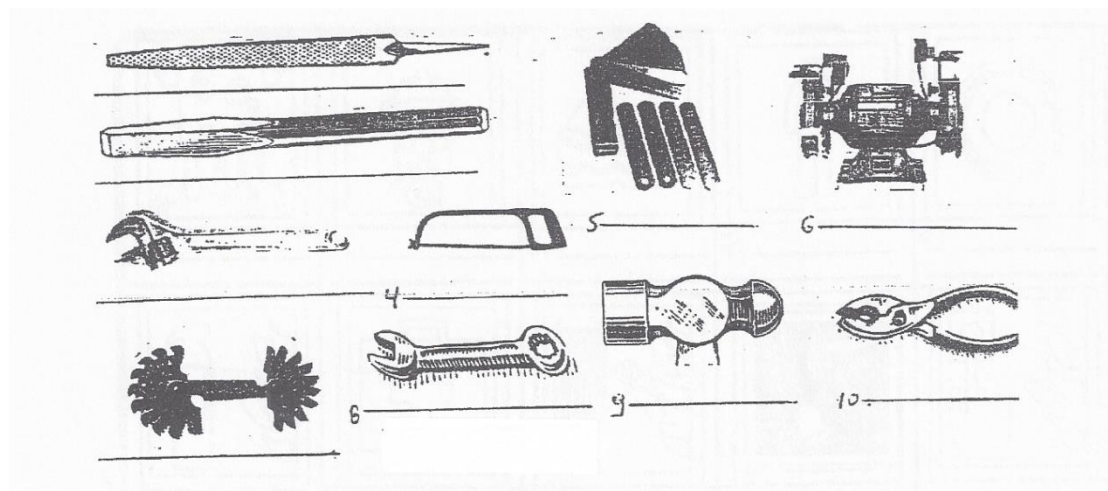
Exam period: September 2019
Date: 10/9/19
Exam paper grade:

FINAL TEST (Retakes)

1. Match the parts of the diesel engine to their functions. (10 points)

1. crankshaft	a. opens the valves
2. camshaft	b. reduces friction
3. piston	c. compresses the air
4. cylinder liner	d. supports the whole engine
5. piston rod	e. reciprocates in the stuffing box
6. connecting rod	f. rotates and gives motion to the propeller
7. bedplate	g. gives rotating motion to the crankshaft
8. crosshead	h. connects the piston rod to the connecting rod
9. piston pin	i. connects the piston to the connecting rod
10. crank pin	j. connects the connecting rod to the crankshaft

2. Identify the following tools. (15 points)



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

1. In the 2-stroke diesel engine one cycle of operation is completed in **(one, two)** revolutions of the crankshaft.
2. The camshaft is connected to the rocker arm with the **(push rod, piston rod, connecting rod)**.
3. We use a **(screwdriver, spanner, hammer)** to tighten or loosen a nut.
4. A pair of **(pliers, calipers, dividers)** is used to measure thicknesses.
5. We smoothen and shape a surface with a **(scraper, reamer, file)**.
6. Diesel engines are **(spark-ignited, compression-ignited)** engines.
7. For hexagonal screws we use a(n) **(Allen key, open-ended spanner, ratchet wrench)**.
8. With a **(screw-pitch gauge, feeler, reamer)** we measure very small distances.
9. In order to hold an object firmly in its place while work is done, we use a **(grinder, fitter's vice, lathe)**.
10. In order to cut internal threads we use **(cutters, taps, snips)**.

4. Complete the descriptions of the different facilities onboard. (10 p.)

*messroom, galley, laundry, lounge, cabins,
navigation bridge, hospital, gym, radio room, accommodation*

1. In the _____ there are the living quarters and recreation rooms for the use of the crew and passengers.
2. The Captain can navigate the vessel in the _____.
3. You can watch T.V and relax together in the _____.
4. You can get first aids and basic medical treatment in the _____.
5. You can send VHF messages in the _____.
6. You can have lunch in the _____.
7. You can sleep in your _____.
8. The kitchen on a vessel is called the _____.
9. You can work out and keep fit in the _____.
10. You can wash and dry your clothes in the _____.

5. Find the kinds of vessels that do the following: (15 p.)

*Bulk carrier, Cable layer, Pilot tender, LPG, Reefer, Container,
Clean-product tanker, Ro-Ro, SAR vessel, Tug, General cargo ship,
Lightship, Crude carrier, Icebreaker, Paxcar ferry*

1. Carries passengers and cars: _____
2. Serves as a beacon for navigation: _____
3. Carries any type of cargo in "boxes": _____
4. Carries refrigerated cargo: _____
5. Tows other vessels: _____
6. Carries any type of packaged cargo or pieces of machinery: _____

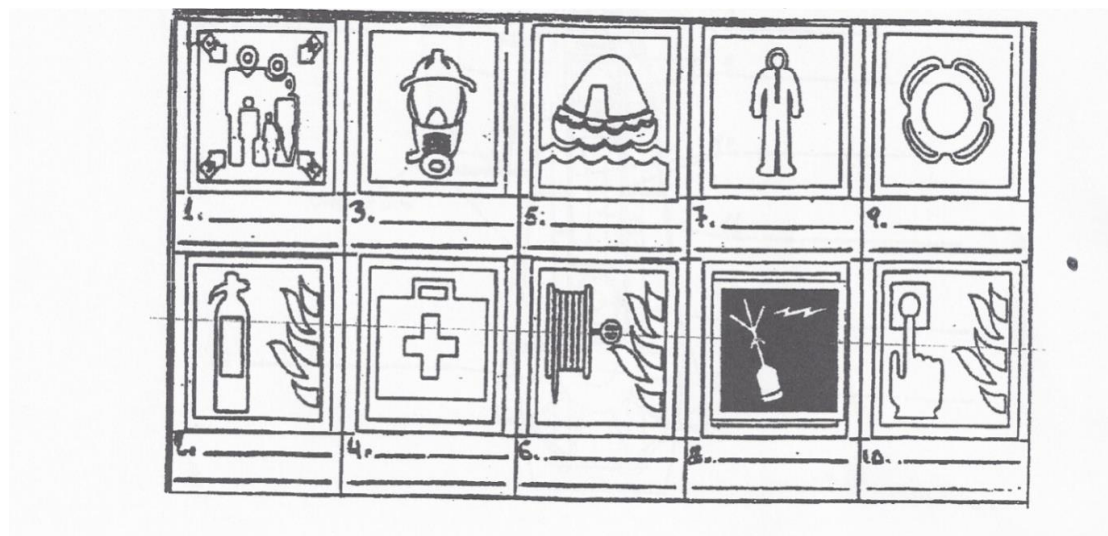
7. Carries crude oil: _____
8. Carries liquified petroleum gas: _____
9. Assists with the pilotage of another vessel: _____
10. Carries loose cargo such as grain, iron, ore etc.: _____
11. Carries vehicles: _____
12. Carries refined petroleum products: _____
13. Lays cables on the bottom of the sea: _____
14. Crushes a way through ice: _____
15. Searches and rescues ships in distress: _____

6. Find which of the following crew members are responsible for the following duties: (10 points)

Master, fitter, oiler, chief engineer, chief officer, wiper, bosun, 2nd engineer, 2nd officer, apprentice engineer

1. Is traditionally the ship's navigational officer: _____
2. Keeps the engine room crew overtime: _____
3. Supervises the O/S and the A/B: _____
4. Lubricates and greases parts of the machinery: _____
5. Cuts and welds pipes: _____
6. Cleans the engine room: _____
7. Learns about bunkering: _____
8. Is the representative of the company and responsible for the safety of the crew and the ship: _____
9. Is the head of the deck department: _____
10. Is responsible for all machinery on board: _____

7. Name the following life saving equipment. (15 points)



8. Name the parts in the following diagram of a 2-stroke diesel engine. (15 points)

