





- 23 The gas usually filled in the electric bulb is.....
- |                   |             |
|-------------------|-------------|
| a) Nitrogen       | b) Hydrogen |
| c) Carbon dioxide | d) Oxygen   |
- 24 Current Governor of Central Bank of Sri Lanka is .....
- |                             |                           |
|-----------------------------|---------------------------|
| a) Mr. S.R. Attygalle       | b) Professor W D Lakshman |
| c) Dr. Nandalal Weerasinghe | d) Mr. Sunil Mandis       |
- 25 The study of weather is called.....
- |                |              |
|----------------|--------------|
| a) Geology     | b) Astronomy |
| c) Meteorology | d) Ecology   |

(25 marks)

**SECTION B – SUBJECT KNOWLEDGE [25 Questions]**

- 01 Which type of engineering deals with the design of bridges, roads, and buildings?
- |                           |                       |
|---------------------------|-----------------------|
| a) Mechanical Engineering | b) Civil Engineering  |
| c) Electrical Engineering | d) Marine Engineering |
- 02 What does "IMO" stand for in the context of marine safety?
- |  |                                 |
|--|---------------------------------|
| a) International Maritime Organization | b) Inland Marine Operations     |
| c) International Machinery Order       | d) Institute of Marine Officers |
- 03 What type of engine is commonly used for marine propulsion in large ships?
- |                  |                    |
|------------------|--------------------|
| a) Petrol Engine | b) Gasoline Engine |
| c) Steam Turbine | d) Diesel Engine   |
- 04 The main function of the propeller is to,
- |                            |                       |
|----------------------------|-----------------------|
| a) Cool the engine         | b) Provide lift       |
| c) Propel the ship forward | d) Control the rudder |
- 05 What is the purpose of the rudder on a ship?
- |                         |                                    |
|-------------------------|------------------------------------|
| a) To generate power    | b) To control the ship's direction |
| c) To anchor the vessel | d) To increase buoyancy            |
- 06 Which of the following is used to prevent corrosion in the ship's hull?
- |             |             |
|-------------|-------------|
| a) Paint    | b) Welding  |
| c) Grinding | d) Riveting |
- 07 A ship's hull is primarily responsible for.....
- |                           |                 |
|---------------------------|-----------------|
| a) Propulsion             | b) Steering     |
| c) Buoyancy and Structure | d) Fuel Storage |
- 08 What is the function of a capacitor in an electrical circuit?
- |                           |                      |
|---------------------------|----------------------|
| a) To increase resistance | b) To store energy   |
| c) To generate power      | d) To reduce current |
- 09 What is the purpose of a flywheel in an engine?
- |                    |                            |
|--------------------|----------------------------|
| a) Increase torque | b) Store rotational energy |
| c) Cool the engine | d) Filter fuel             |
- 10 What is the function of gears in a machine?
- |                                  |                      |
|----------------------------------|----------------------|
| a) To increase resistance        | b) To store energy   |
| c) To transmit motion and torque | d) To reduce voltage |



- 21 Which of the following is a basic classification of Engineering Materials?  
 a) Metals  
 b) Non-Metals  
 c) Both Metals & Non-Metals  
 d) None of the mentioned
- 22 Which of the following is not a property of engineering materials?  
 a) Mechanical properties  
 b) Chemical properties  
 c) Polymorphism  
 d) Electrical properties
- 23 What is fluid mechanics?  
 a) Study of fluid behavior at rest  
 b) Study of fluid behavior in motion  
 c) Study of fluid behavior at rest and in motion  
 d) Study of fluid behavior at different temperatures
- 24 Hydraulic energy is converted into another form of energy by hydraulic machines. What form of energy is that?  
 a) Mechanical Energy  
 b) Electrical Energy  
 c) Nuclear Energy  
 d) Elastic Energy
- 25 Semi-permeable membrane is selective membrane which does not permit the passage of dissolved \_\_\_\_\_ particles.  
 a) Solvent  
 b) Solute  
 c) Anhydrous  
 d) Saturated

(25 marks)

SECTION C – IQ TEST [25 Questions]

- 01 If *all submarines are vessels* and *all vessels float*, which of the following is true?  
 a) Some submarines do not float  
 b) All submarines float  
 c) No vessel floats  
 d) Submarines are not vessels
- 02 If "WATER" is coded as "YCVGT", how is "OCEAN" coded?  
 a) QEGCP  
 b) PFBBO  
 c) QFBCR  
 d) QEGAN
- 03 If all Marine Engineers are Engineers, and some Engineers are Sailors, which of the following is always true?  
 a) All Sailors are Marine Engineers  
 b) All Engineers are Sailors  
 c) Some Marine Engineers may be Sailors  
 d) Marine Engineers are not Engineers
- 04 Find the next number in the series: 2, 6, 12, 20, .....?  
 a) 28  
 b) 30  
 c) 32  
 d) 34
- 05 The average of five numbers is 27. If one number is 30, what is the average of the remaining four?  
 a) 26.5  
 b) 26  
 c) 27.5  
 d) 28
- 06 If a cube is painted on all six faces and then cut into 64 smaller cubes, how many cubes will have exactly two painted faces?  
 a) 12  
 b) 24  
 c) 36  
 d) 48
- 07 Find the odd one out:  
 a) Radar  
 b) Sonar  
 c) GPS  
 d) Microscope









- 17 Find the correctly punctuated sentence:
- a) The chief engineer said "Check the oil level immediately."      b) The chief engineer said, check the oil level immediately.
- c) The chief engineer said, "Check the oil level immediately."      d) The chief engineer said; Check the oil level immediately.
- 18 Choose the correct form: "She \_\_\_ to the shipyard every morning."
- a) go      b) goes  
c) going      d) Gone
- 19 Identify the error: "The crew was divided into teams and assigned duties."
- a) crew was      b) divided into teams  
c) assigned      d) duties
- 20 Find the correct sentence:
- a) The officer explain the rules yesterday.      b) The officer explained the rules yesterday.  
c) The officer explaining the rules yesterday.      d) The officer was explain the rules yesterday.

**Read the short passage and answer Question 21–23:**

"Marine engineers are responsible for operating, maintaining, and repairing engines and machinery on ships. They ensure safety, fuel efficiency, and smooth operations. Good communication and teamwork are essential for marine engineers."

- 21 What is the main responsibility of marine engineers?
- a) Designing new ships      b) Operating and maintaining ship machinery  
c) Navigating the vessel      d) Handling cargo
- 22 Which quality is essential for marine engineers according to the passage?
- a) Leadership only      b) Communication and teamwork  
c) Physical strength      d) Creativity
- 23 Marine engineers help in improving:
- a) Navigation speed      b) Cargo handling  
c) Fuel efficiency      d) Passenger safety checks
- 24 Rearrange the words into a correct sentence: "the / engineers / ship / the / maintained / have."
- a) The ship engineers maintained have.      b) The engineers have maintained the ship.  
c) Have maintained the engineers the ship.      d) The ship have maintained engineers.
- 25 Choose the best replacement for "boring" in the sentence: "The report was very boring, so the cadets did not pay attention."
- a) Interesting      b) Dull  
c) Exciting      d) Clear

(25 marks)