

**STANDARD AND SYLLABUS**

1. **First Paper:-** This will be objective type (multiple choices) paper.

a. **General English:-**

The question paper in General English will be designed to test the simple grammar, candidates' understanding of English and workman like use of words.

b. **General Studies:-**

i. **Current event of national and International Importance-** The questions will test the candidates' awareness of current events of national and international importance in the broad areas of culture, music, arts, literature, sports, governance, societal and developmental issues, industry, business, globalization and interplay among nations.

ii. **Indian Polity and Economy-** The questions shall aim to test candidates' knowledge of the Country's political system and the Constitution of India, social systems and public administration, economic development in India, regional and international security issues and human rights, including its indicators.

iii. **History of India-** The questions will broadly cover the subject in its social, economic and political aspects. This shall also include the areas of growth of nationalism and freedom movement.

iv. **Indian and World Geography-** The questions shall cover the physical, social and economic aspects of geography pertaining to India and the world.

**Note-** The paper will include such questions which candidates should be able to answer without special study.

c. **Mental Ability & Intelligence**

The questions will be designed to test the logical reasoning, quantitative aptitude including numerical ability and data interpretation.

  
29/10/15

2. **Second Paper**

This will be objective type (multiple choices) paper from the respective Engineering stream of the candidate out of Marine Engineering/ Mechanical Engineering/ Electrical and Electronics Engineering/ Automobile Engineering. It means the candidate qualified in Marine Engineering will be tested in subject of Marine Engineering only and so on.

**Mechanical Engineering**

SRL NO.	SUBJECT
1.	Industrial Psychology/Industrial Sociology
2.	Fluid Mechanics
3.	Materials Science in Engineering
4.	Strength of Materials
5.	Thermodynamics
6.	Human Values & Professional Ethics
7.	Electrical Machines & Automatic Control
8.	Applied Thermodynamics
9.	Manufacturing Science
10.	Measurement & Metrology
11.	Engineering and Managerial Economics
12.	Machine Design
13.	Theory of Machines
14.	Heat & Mass Transfer
15.	I.C. Engines & Compressors
16.	Industrial Management
17.	Refrigeration & Air-conditioning
18.	Computer Aided Design
19.	Automobile Engineering
20.	Power Plant Engineering

  
29/05

## Automobile Engineering

SRL NO.	SUBJECT
1.	Industrial Psychology/Industrial Sociology
2.	Fluid Mechanics
3.	Material Science in Engineering
4.	Strength of Materials
5.	Thermodynamics
6.	Human Values & Professional Ethics
7.	Electrical Machines & Automatic Control
8.	Applied Thermodynamics
9.	Manufacturing Science
10.	Measurement & Metrology
11.	Machine Design
12.	Theory of Machines
13.	IC engines and Compressors
14.	Heat and Mass Transfer
15.	Industrial Management
16.	Automotive fuels and lubricants
17.	Design of automotive components
18.	Computer Aided Design and Manufacturing
19.	Automotive Pollution & Control
20.	Trouble shooting, Servicing & Maintenance of Automobile

## Electrical And Electronics Engineering

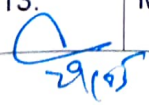
SRL NO.	SUBJECT
1.	Thermal & Hydraulic Machines
2.	Industrial Psychology/Industrial Sociology
3.	Basic System Analysis
4.	Electrical Meas. & Measuring Instruments
5.	Analog & Digital Electronics
6.	Human Values & Professional Ethics
7.	Electromechanical Energy conversion
8.	Network Analysis and Synthesis
9.	Electrical & Electronics Engineering Materials
10.	Microprocessors

*29/10/25*

11.	Engineering & Managerial Economics
12.	Fundamentals of E.M. Theory
13.	Control System
14.	Elements of Power System
15.	Analog Integrated Electronics
16.	Industrial Management
17.	Power System Analysis
18.	Power Electronics
19.	Analog & Digital Communication
20.	Switch Gear & Protection
21.	Electrical Instrumentation & Process Control
22.	Data Communication Networks

### **Marine Engineering**

SRL NO.	SUBJECT
1.	Material Science
2.	Applied thermodynamics
3.	Fluid Mechanics
4.	Strength of Materials
5.	Basic Ship Structure & Construction
6.	Kinematics of machines
7.	Electrical Machines
8.	Measurement, Metrology & Control
9.	Dynamics of Machines
10.	Naval Architecture
11.	Marine Auxiliary Machinery
12.	Elementary Designing & Drawing
13.	Marine electrical technology

  
29/10/15

14.	I.C. Engines
15.	Fluid Machinery
16.	Refrigeration & Air Conditioning
17.	Computer aided design (C & D)
18.	Advanced I.C. engines
19.	Marine Steam Engg, Heat Engines & boilers
20.	Renewable energy sources & applications
21.	Marine control engg, & automation
22.	Ship operation & Management
23.	Double Hull tank vessels
24.	Hydraulic Circuits & Control

  
29/05