## DETAILED SYLLABUS OF PART A

Particulars	Syllabus - General (Part A)
General Knowledge	<ul> <li>Facts about India and other countries: Basic facts / Geography / Tourism / Transport systems / Personalities / Places / History / Constitution / Economy / Writers / Literatures / Indian States &amp; Union Territories / International Organizations.</li> <li>General Science : Branches of studies / Scientific instruments and appliances / Physics / Chemistry / Biology</li> <li>Sports &amp; Games</li> <li>Important Events/ Movements / Leaders / Places / Years</li> <li>Writers – Authors – Biography - Autobiography</li> <li>Abbreviations</li> </ul>
General English	<ul> <li>Spotting Errors / Vocabulary usage / Sentence Completion / Synonyms / Antonyms / Reconstruction of sentences / One word substitution / Idioms &amp; Phrases / Grammar / Correct usage of Articles / Prepositions / Singular and Plural</li> </ul>
Reasoning	<ul> <li>Analogy / Classification / Series Completion / Coding-Decoding / Blood Relation / Direction Sense Test / Alphabet Test / Number and Ranking / Puzzle Test / Odd Man out / General Intelligence / Numerical ability &amp; knowledge in Microsoft excel.</li> </ul>
Quantitative Aptitude	<ul> <li>Number system / Fraction and Decimals / Simplification / Volume and surface areas / Square roots and Cube roots / Problems based on numbers, Speed, Time and Distance, Simple Interest / Compound Interest / Boats and Streams / Problems on Trains / Percentage - Interest / HCF and LCM / Average / Ratio and Proportion / Time and Work / Problems based on ages / Profit, Loss and Discount, Statistics / Permutations &amp; Combinations / Probability.</li> </ul>

DETAILED SYLLABUS OF PART B	DETAILED	<b>SYLLABUS</b>	OF	PART	Β
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Name of Posts	Syllabus - Discipline related (Part B)
For all posts	<ul> <li>Organisational Skills- Role of a supervisor – Manpower management &amp; resource planning – Work force motivation – Grievance handling at shop floor level – Code of Conduct &amp; Discipline - Importance of time keeping &amp; productivity.</li> <li>Basic knowledge of computer applications.</li> <li>Supervisory Duties:-</li> </ul>
	<ul> <li>Supervisory Duties:-</li> <li>Principles of Organization – Principles of organization; authority; responsibility; accountability; delegation; span of control; centralization; unity of command.</li> <li>Motivation – Meaning of motivation; understanding human behavior; factors of motivation; levels of motivation; methods of motivating people; brief on motivation theories.</li> <li>Communication – Purpose of communication; communication process; methods of communication written, oral, audio – visual; report writing; channels of communication namely formal and informal; art of giving instructions; barriers of communication; guidelines for effective communication.</li> <li>HSE &amp; IMS- Awareness on Industrial safety &amp; PPEs – Importance of housekeeping – Knowledge of IMS – Quality Standards – 5 S – management of industrial hazardous wastes.</li> </ul>

## In addition to the above, following are the topics included for various posts:-

S1 No.	Name o	of Posts	Syllabus - Discipline related (Part B)
1.	Assistant	Engineer	Theoretical and application knowledge on
1.	Assistant (Commerc	•	<ul> <li>Theoretical and application knowledge on</li> <li>Basic ship building and ship repair concepts – <ul> <li>Docking and undocking related activities,</li> <li>Hull Fabrication,</li> <li>Stability concepts,</li> <li>Material used in ship building and ship repair,</li> <li>IHOP, Accommodation &amp; Outfitting – deck machineries, marine engines, shafting system,</li> <li>HVAC systems,</li> <li>Hydraulic machineries,</li> <li>Boilers,</li> <li>Refrigeration and Air Conditioning,</li> <li>Installation and commissioning of marine equipments,</li> <li>Concepts about overhauling of Pumps, valves, motors and other machineries,</li> <li>Basic concepts of surface preparation and painting,</li> <li>Marine piping system and piping standards,</li> <li>Quality control in ship building and ship repair</li> <li>Classification societies,</li> <li>Basic concepts about electronics/ communication/ navigational equipments in marine field.</li> </ul> </li> <li>Basic concepts of commercial activities in ship repair –</li> </ul>
			• Estimation of various ship repair scenarios like repair/ renewal of hull, piping, machinery, accommodation,
			electrical and electronics equipments etc.,

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S1 No.	Name of Posts	Syllabus - Discipline related (Part B)
		• Preparation of budgets / quotations / invoices,
		Basic concepts of GST,
		<ul> <li>Cost control, monitoring and scheduling,</li> </ul>
		• Estimation based on WBS / tariff / historical data /
		labour & material /back up offers etc.
		• Tenders & Contracts,
		Budget Vs Actuals and Profit analysis.
2.	Assistant Engineer	Theoretical and application knowledge on
	(Mechanical)	• Thermodynamics, Energy cycles, IC Engines, Four stroke
	(	& two stroke engines
		Refrigeration & Air conditioning, Psychrometrics
		• Welding – types & defects, Gas flames, Soldering & Brazing
		<ul> <li>Manufacturing processes &amp; Machine tools.</li> </ul>
		Corrosion & its prevention.
		Renewable & Non- renewable energy sources
		• Pumps & its types