

Annexure I

DETAILED SYLLABUS OF PART A

Particulars	Syllabus - General (Part A)
General Knowledge	 Facts about India and other countries: Basic facts / Geography / Tourism / Transport systems / Personalities / Places / History / Constitution / Economy / Writers / Literatures / Indian States & Union Territories / International Organizations. General Science: Branches of studies / Scientific instruments and appliances / Physics / Chemistry / Biology Sports & Games Important Events / Movements / Leaders / Places / Years Writers - Authors - Biography - Autobiography Abbreviations
General English	• Spotting Errors / Vocabulary usage / Sentence Completion / Synonyms / Antonyms / Reconstruction of sentences / One word substitution / Idioms & Phrases / Grammar / Correct usage of Articles / Prepositions / Singular and Plural
Reasoning	Analogy / Classification / Series Completion / Coding-Decoding / Blood Relation / Direction Sense Test / Alphabet Test / Number and Ranking / Puzzle Test / Odd Man out / General Intelligence
Quantitative Aptitude	• 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 & Combinations / Probability.



DETAILED SYLLABUS OF PART B

Name of Post	Syllabus - Discipline related (Part B)
Name of Post For all posts	 Syllabus - Discipline related (Part B) Organisational Skills- Role of a supervisor - Manpower management & resource planning - Work force motivation - Grievance handling at shop floor level - Code of Conduct & Discipline - Importance of time keeping & productivity. Basic knowledge of computer applications. Supervisory Duties:- Principles of Organization - Principles of organization; authority; responsibility; accountability; delegation; span of control; centralization; unity of command. Motivation - Meaning of motivation; understanding human behavior; factors of motivation; levels of motivation; methods of motivating people; brief on motivation theories. 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. • HSE & IMS- Awareness on Industrial safety & PPEs –
	Importance of housekeeping – Knowledge of IMS – Quality Standards – 5 S – management of industrial hazardous wastes.

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

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S1 No.	Name of Post	Syllabus - Discipline related (Part B)
1	Assistant Engineer	Theoretical and application knowledge on
	(Electronics)	Basic Electronic Measuring Instruments & Transducers.
		 Fundamentals of various communication & navigational systems
		• Working principle of starters , variable frequency drives at application level
		Knowledge of digital control systems and automated systems
		Analysis of line diagrams and drawings
		Trouble shooting of PCB
		• Basic knowledge of OFC, communication electronics,
		Amplifiers, Optoelectronics, sensors, microwave
		Testing & calibration techniques
2	Assistant Engineer	Theoretical and application knowledge on
	(Information	System Administration and management
	Technology)	 Operating systems – UNIX, LINUX and Windows
		Network administration and Management
		Database Management systems
		ERP systems management
		Website management
		Management of PCs and peripheral devices
		Various types of IT systems management
		Programming languages including Scripting languages
		Information security practices and Cyber laws