

**SYLLABUS FOR PART-A: GENERAL**

Topics	Description
General Knowledge	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.



SYLLABUS FOR PART-B
DETAILED SYLLABUS OF PROJECT ASSISTANT (MECHANICAL)

Sl No	Topics	Description
1	Manufacturing Process	Casting /Forging / Extrusion, Machining, Type of machines, Cutting fluids, Cutting tools, CNC, CAD, Operating system, 5 S
2	Welding	Types, Defects, Tests, Welding sets
3	I C Engines	Components, Two stroke, Four stroke
4	Thermal Engineering	Turbines, Condensers
5	Metallurgy & Properties	Heat treatment
6	Strength of Materials	Stress, Strain, Shear forces
7	Maintenance	Types - Preventive, Break down and Predictive
8	Materials	Inventory, Functions of stores
9	Metrology and Instruments	Measuring instruments
10	Construction and functioning of various machines / equipment / other service facilities	Compressors, Pumps, Boilers, EOT cranes, Lifting tackles, Refrigeration and air conditioning, Material handling equipments like Forklifts, Industrial Gases