

## SYLLABUS FOR JR. ENGINEER & SUB ENGINEER

Post Name	Domain Required	Topics
<b>Sub Engg and Jr. Engineer</b> (Note: For Sub Engineer and Jr. Engineer the level of question shall be different as per the post level i.e. for higher post higher level question shall be set.)	<b>Aptitude -</b> Technical & Non technical	Verbal Ability
		Quantitative Ability
		Logical Reasoning
		Objective English
	Diploma / Degree Electrical	Power Electronics
		A C machine
		Analog Circuits
		Control System
		DC Machine
		Digital Electronics
		Electrical Basics
		Network theory
	Diploma / Degree Electronics	Control Systems
		Digital Electronics and Logic Design
		Electronics Devices and Circuits
		Micro processor/Microcontrollers
		Operational Amplifiers
		Power Electronics
	Diploma / Degree Electronics & Power	Principles of Communication engineering
		AC power transmissions
		Bulk power transmissions
		Distribution of power
		Generation of electrical power
	Diploma / Degree Electronics & Telecomm	Electronics & Communication/Basics
		Analog Circuits
		Basics
		Integrated Circuits and Digital Electronics
		Micro Processor and Micro Controllers
		Other Electronic Devices
		PLT
		Semiconductors and Transistor Devices
	Diploma / Degree Mechanical	Applied Mechanics
		Fluid Mechanics
		Hydraulic Machines
		Machine Design
		Pipe and Fitting
		Refrigeration and Air Conditioning
		SOM
		Theory of machines
		Welding Technology
Workshop Technology		
Thermodynamics		
Diploma / Degree Instrumentation		Fundamentals
	Transducers	
	Electronics	
	Control System	
	Digital Circuits	
	Micro processors & Microcontrollers	
	Measurements	
	Transistors & OPAMPS	

Post Name	Domain Required	Topics
Jr. Engineer	Degree Power Engineering	Switchgear & Protections
		Thermal Power Plant Operation & Performance
		Power Plant Maintenance Practices
		Power Plant Operation Practices
		Elective I-Non-Conventional Energy Sources
		Power Plant Projects
		Steam Turbines & Its Auxiliaries
		Machine Design
		Thermal Power Plant Commissioning
		Energy Conversion
		Turbo Generator & its Auxiliaries
		Industrial Economics & Management
		Thermal Power Plant Control & Instrumentation
		Power Generation Techniques
		Steam Generators & its Auxiliaries
		Heat Transfer
		Auto Control
		Thermal Power Station Layout, Common Aux. & Safety
		Environmental Management
		Theory of Machines
		Engineering Thermodynamics
		Digital Circuits
		Basic Electrical Machines
		Fluid Power
		Material Science & Metallurgy
		Manufacturing Process
Network Analysis		
Electronic Devices & Circuits		