

## LIST OF SUBJECTS FOR Q-EXAMINATION (SCHOOLWISE)

Sl. No.	School	Branch/Discipline	Name of the Subject
1	SES	<b>Compulsory Mathematical Aptitude Subject: Mathematics</b>	
		EE	Electric Circuits
			Signals and Systems
			Electric Machines
			Control Systems
			Power Electronics
			Power Systems
		ECE	Digital Electronics
			Signals and Systems
			Analog Electronics
			Analog and Digital Communication
			Electromagnetics
			Semiconductor Devices
		CSE	C Programming and Data Structure
			Design & Analysis of Algorithms
			Formal Language Automata Theory
			Computer Organization and Architecture
			Operating Systems
			Computer Networks
		2	SBS
Chemistry and BioSciences	Heterocyclic Chemistry		
	Spectroscopy for Chemist		
	Fundamentals of Polymer Chemistry		
	Supramolecular Chemistry		
	Physical Methods in Chemistry		
	Coordination Chemistry		
	Bioinorganic Chemistry		
	Nanochemistry and Technology		
	Quantum Chemistry		
	Chemical Kinetics		
	Chemical Thermodyanamics		
	Biochemistry		
	Molecular Cell Biology		
	Chemical Biology		
	Mathematics for Chemists		
	Mathematics for Bilogists		
	A Concise History of Chemistry, Medicine, & Life Sciences in Ancient India		
	<b>Compulsory Mathematical Aptitude Subject : Mathematical Aptitude</b>		
Mathematics	Real Analysis		
	Complex Analysis		
	Algebra		
	Linear Algebra		
	Discrete Mathematics		
	Functional Analysis		
	Topology		
	Ordinary and Partial Differential Equations		
	Probability and Statistics		
	Number Theory		

			Numerical Analysis
	<b>Compulsory Mathematical Aptitude Subject : Mathematics aptitude for Physics</b>		
	SBS	Physics	Fundamental Classical Mechanics
			Fundamental of Qantum Mechanics
			Basics of Detection and measurement of High energy particle and radiation
			Fundamental of Semiconductor devices
			Numerical Techniques
			Statistical Mechanics
			Solid State Physics
			Fundamentals of Atomic Physics
			Fundamentals of Magnetism and Supeconductivity
			Fundamentals of Classical Electrodynamics
			Material Characterization
			Optics and Laser
	<b>Compulsory Mathematical Aptitude Subject : Mathematics and Statistics</b>		
3	SEO&CS	Geology	Sedimentology
			Geochemistry
			Analytical Methods in Geosciences
		Atmosphere	Meteorology and Oceanography
			Fluid Dynamics in Earth System Sciences
			Concepts in Earth System Science
	Organic Geochemistry		
	Tropical Climate System		
	Physical Oceanography		
	Earth System Modelling		
	<b>Compulsory Mathematical Aptitude Subject : Quantitative Aptitude &amp; Logical Reasoning</b>		
4	HSS&M	Economics	Spatial Economics
			Nuroeconomics
			Labour Economics
			Experimental Economics
			Ecological Economics
			Ecological of Happiness
			Money Banking
			Economics of Natural Resource Conservation
			Climate Economics and Pllicy
			Enegy Economics
		Economics of Rural Development	
		English	Autobiography Studies
			Science Fiction
			Indian Writings in English
			Feminist Writings
	Postmodern fiction		
	Contemporary Narrative Theory		
	Author/Thinker in Focus		
	Second Language Acquisition and Learning		
	English Language Testing		
	Reading in Scond Language		
	Psvchology	Adcanced Cognitive Psychology	
		Cross-cultural Psychology	
		Advanced Psychological Theories	
Health Psychology			



			Pavement Materials
			Pavement Design
		Water Resources Engineering	Groundwater Hydrology
			Surface Hydrology
			Open Channel Hydraulics