

JUVNL AE Syllabus 2024

The JUVNL AE syllabus will assist applicants in determining which topics to study for the exam and how thoroughly they should be covered. The written exam has an 80% weightage and covers themes from both general aptitude and domain-specific disciplines. The syllabus for the JUVNL AE computer-based test is detailed in the table below.

Subjects	JUVNL AE Syllabus
General Awareness	History
	Culture
	Sports current Affairs
	Economic Survey
	Geography
	General Polity
	Current Affairs- National and International
	Indian Constitution
	Scientific Research
Reasoning Ability	Visual Memory
	Figure Classification
	Analysis
	Judgment
	Decision Making
	Similarities and Differences

	Space Visualization
	Problem Solving
	Discriminating Observation
	Relationship Concepts
	Arithmetical Number Series
Numerical Ability	Profit and Loss
	Time and Work
	Pipes and Cisterns
	Interest
	Time & Distance
	Percentage
	Simplification
	Boats & Streams
	Data Interpretation
	Average
Civil Engineering	The Strength of Materials and Theory of structures
	Power Plant Engineering
	Environmental Engineering
	Surveying

	Hydrology and Water Management
	Steel Structure
	Reinforced Concrete
	Geotechnical Engineering
	Fluid Mechanics & Machinery
	Hydrology & Water Management
Electrical Engineering	Electrical Circuits and Networks
	Controls System
	Transformers
	Kirchoff's Law
	DC Generators
	Power Systems
	DC Motors
	Auto Transformers
	Power, Electronics, and Drives
	Electrical Machines
	Parallel Operation Synchronous Machines
	Power Plant Engineering
	Switchgear Protection

	Control Systems
	Measurement and Instrumentation
	Analog and Digital Electronics