

# JBVNL JE Syllabus 2024

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The aspiring candidates must prepare for the exam according to the exam pattern. And only those who will qualify the written exam will be eligible to move to the next selection round. They will have to prepare subjects such as Civil Engineering, Electrical engineering & Mechanical engineering subjects. Apart from that, there will be some general subjects such as General Knowledge, Reasoning Ability syllabus etc.

### Part A-Domain Test Syllabus

Topics Covered in Part A Domain Test for JBVNL JE Exam	
Subject	Topics
Civil Engineering	Building Materials
	Surveying
	Irrigation Engineering
	Soil Mechanics
	Estimating, Costing, and Valuation
	Hydraulics
	Transportation Engineering
	Environmental Engineering
Electrical Engineering	Circuit law
	AC Fundamentals
	Fractional Kilowatt Motors

	Electrical Machines
	Basic Electronics
	Magnetic Circuit
	Measurement and Measuring Instruments
	Transmission and Distribution
	Utilization and Electrical Energy
<b>Mechanical Engineering</b>	Theory of Machines
	Fitting & Accessories
	Machine Design
	Air Standard Cycles for IC Engines
	Strength of Materials
	Properties of Pure Substances
	Engineering Mechanics
	Thermodynamics
	Rankine Cycle of System
	IC Engine
	Boilers
	Classification
	Specification

## Part B-General Aptitude Test Syllabus

Topics Covered in Part B-General Aptitude Test for JBVNL JE Exam	
Subject	Topics
Reasoning	Analogies
	Decision making
	Problem-solving
	Seating Arrangement
	Blood Relations
	Arithmetical Reasoning
	Analytical Function
	Statement & Conclusions
	Visual Memory
	Problem Solving
	Space Visualization
General Awareness/Knowledge	General Science
	Current Affairs
	History
	Appointments & Resignations
	Economy

	National Movements
	Geography
	Jharkhand GK
	Government Schemes
	Arts & Culture
	Awards
	Books & Authors
<b>Quantitative Aptitude</b>	Number System
	Time and Work
	Data Interpretation
	Age Problems
	Ratio and Proportion
	Compound Interest
	Simple Interest
	Simplification/ Approximation
	Percentage
	Profit and Loss
	Average
	Decimal Fractions

	HCF and LCM
	Time and Distance
	Partnership