

**SYLLABUS FOR RINL-VSP MT(T) WRITTEN TEST - 2012****(Indicative but not exhaustive)****APTITUDE**

<b>1 Logical Reasoning</b>	Deductive Logic
	Inductive Logic
	Conceptualization
	Puzzles
	Venn Diagram
<b>2 Numerical</b>	Percentages & Averages
	Profit, Loss & Discount
	Ratio and Proportion
	Stocks and Shares
	Simple Interest & Compound Interest
	Time, work and distance
	Permutations & Combinations
<b>3 Verbal</b>	Articles
	Prepositions
	Reading Comprehension
	Synonyms
<b>4 General awareness</b>	GK
	Current Affairs
	History

**DISCIPLINE**

<b>1 Chemical</b>	Chemical Reaction Engineering
	Chemical Engineering Thermo Dynamics
	Heat Transfer
	Mass Transfer
	Momentum Transfer and Mechanical
	Operations
	Polymer Synthesis
	Polymer Technology
	Polymer Testing
<b>2 Civil Engg</b>	Air Pollution
	Concrete Structure
	Foundation Engineering
	Hydrology
	Irrigation
	Mechanics
	Municipal Solid Waste
	Noise Pollution

Soil Mechanics
Steel Structure
Structural Analysis
Surveying
Water Requirements
Fluid Mechanics and Hydraulics

<b>3 Computer Science</b>	Computer Organization
	Data Structures
	Database
	Digital Electronics
	Networking
	OS Fundamentals
	OSI Layer
	Prgramming language/C++
	Prgramming language/OO

<b>4 Electrical</b>	Analog and Digital Electronics
	Control Systems
	Electric Circuits and Feilds
	Electrical and Electronic Measurements
	Electrical Machines
	Power Electronics and Drives
	Power Systems
	Signals and Systems

<b>5 Instrumentation</b>	Analog Electronics
	Analytical, optical and Biomedical
	Instrumentation
	Basic of circuits and Measurement System
	Communications
	Control Systems and Process Control
	Digital Electronics
	Electrical and Electronic Measurements
	Signal and Systems
	Transducers, Mechanical Measurement and Indus inst

<b>6 Mechanical</b>	Computer Integrated Manufacturing
	Design
	Engineering Materials
	Engineering Mechanics
	Fluid Machines
	Fluid Mechanics
	Inventory Control

Machine Design
Machining and Machine Tool Operations
Management Information System
Metrology and Inspection
Product design and Development
Production planning and Control
Strength of Materials
Theory of Machines
Thermodynamics
Vibrations
Energy conservation
Heat Transfer
Operations Research
Industry Safety

<b>7 Metallurgy</b>	Extractive Metallurgy
	Foundry technology
	General metallurgy
	Material science
	Mechanical metallurgy
	Physical metallurgy
	Welding and Corrosion