



**RASHTRIYA ISPAT NIGAM LIMITED
VISA KHAPATNAM STEEL PLANT
VISA KHAPATNAM**

**Written Examination Syllabus for the post of Management Trainee & Junior Medical
Officers- Rectt. Advt No. 02/2017**

(Syllabus is Indicative but not exhaustive)

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

DISCIPLINE	
1 Chemical	Chemical Reaction Engineering
	Chemical Engineering Thermo Dynamics
	Heat Transfer
	Mass Transfer
	Momentum Transfer and Mechanical
	Operations
	Polymer Synthesis
	Polymer Technology
	Polymer Testing

2 Civil Engg	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

3 Ceramics	Refractories
	Raw Materials used in Refractories , Cement , Glass, White wares etc
	Material Science and Technology
	Heat Transfer and Heat balance
	Phase Diagram
	Potteries
	Testing of Refractories , Cement and glass
	Fuels and Furnace

4 Electrical	Analog and Digital Electronics
	Control Systems
	Electric Circuits and Fields
	Electrical and Electronic Measurements
	Electrical Machines
	Power Electronics and Drives
	Power Systems
	Signals and Systems

5 Mechanical	Computer Integrated Manufacturing & Design
	Engineering Materials
	Engineering Mechanics
	Fluid Machines
	Inventory Control
	Machine Design
	Management Information System
	Metrology and Inspection
	Product design and Development
	Production/Manufacturing Engineering
	Strength of Materials
	Theory of Machines
	Thermodynamics
	Mass and Heat Transfer
	Operations Research
Industry Safety	
Industrial Engineering & Management	

6 Metallurgy	Extractive Metallurgy
	Foundry technology
	General metallurgy
	Material science
	Mechanical metallurgy
	Physical metallurgy
	Welding and Corrosion

7. Mining	Mine Planning & Design
	Mine Survey
	Mining Machinery
	Advanced Drilling & Blasting
	Mine Management, Legislation and General Safety
	Mine Electrical Engineering
	Mine Environment Management

8. F&A	Financial Reporting
	Strategic Financial & Cost Management
	Advanced Auditing & Professional Ethics including Cost and Management Audit
	Corporate & Allied Laws and its compliance
	Advanced Management Accounting
	Information's Systems Control and Audit
	Direct & Indirect Tax Laws and International taxation
	Strategic Performance Management and Business Valuation

9. JMO	Medical Ethics
	General Medicine
	General Surgery including ENT & Ophthalmology
	Pediatrics
	Obstetrics & Gynecology and Labour Room
	Orthopedics
	Emergency Department: <ul style="list-style-type: none"> ➤ Primary Care of Injured ➤ Poisoning ➤ Burns ➤ Medical Legal Cases ➤ Polytrauma ➤ Critical Care

	Intensive Care Unit
	Operation Theater
	Pre-Operative Preparation / Post-Operative management of patients
	Radiology, Ultrasonography, CT Scan, MRI etc
	Laboratory tests, results in various clinical conditions
	Blood Bank and various types of blood and blood product transfusion
	Bio-Medical waste
	Universal Precautions
	Drugs: Rational Use, Drug Interactions, Dosage, Side Effects
	Consumer Protection Act / Medical negligence