# Syllabus for Computer Based Written Test for various Non-executive Posts in S-7, S-5 & S-3 Grade w.r.t Advt. no GAIL/OPEN/MISC/1/2024

1.	Jr.	Engineer	(Chemical)
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Part I       > Fluid Mechanics (Preliminary)         > Stoichiometry / Material & Energy Balance         > Petroleum refinery Technology (Practical)         > Fertilizer Technology (Practical)         > Heat transfer (Preliminary)         > Mass transfer (Preliminary)         > Chemical Engineering Thermodynamics (Preliminary)         > Fuels and Combustion         > Process Control and Instrumentation (Preliminary)         > Unit operations         > Operation of         • Pumps         • Rotary Compressors         • Blowers         • Heat Exchangers         > Safety Systems in Industry         • Work Permit System         • Safety Equipment         • Personal Protective Equipment (PPE)	#	Syllabus	
<ul> <li>Petroleum refinery Technology (Practical)</li> <li>Fertilizer Technology (Practical)</li> <li>Heat transfer (Preliminary)</li> <li>Mass transfer (Preliminary)</li> <li>Chemical Engineering Thermodynamics (Preliminary)</li> <li>Fuels and Combustion</li> <li>Process Control and Instrumentation (Preliminary)</li> <li>Unit operations</li> <li>Operation of <ul> <li>Pumps</li> <li>Rotary Compressors</li> <li>Blowers</li> <li>Heat Exchangers</li> </ul> </li> <li>Safety Systems in Industry <ul> <li>Work Permit System</li> <li>Safety Equipment</li> <li>Personal Protective Equipment (PPE)</li> </ul> </li> </ul>	Part I	Fluid Mechanics (Preliminary)	
<ul> <li>Fertilizer Technology (Practical)</li> <li>Heat transfer (Preliminary)</li> <li>Mass transfer (Preliminary)</li> <li>Chemical Engineering Thermodynamics (Preliminary)</li> <li>Fuels and Combustion</li> <li>Process Control and Instrumentation (Preliminary)</li> <li>Unit operations</li> <li>Operation of <ul> <li>Pumps</li> <li>Rotary Compressors</li> <li>Blowers</li> <li>Heat Exchangers</li> </ul> </li> <li>Safety Systems in Industry <ul> <li>Work Permit System</li> <li>Safety Equipment</li> <li>Personal Protective Equipment (PPE)</li> </ul> </li> </ul>		Stoichiometry / Material & Energy Balance	
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<ul> <li>Heat Exchangers</li> <li>Safety Systems in Industry         <ul> <li>Work Permit System</li> <li>Safety Equipment</li> <li>Personal Protective Equipment (PPE)</li> </ul> </li> </ul>		Blowers	
<ul> <li>Safety Systems in Industry</li> <li>Work Permit System</li> <li>Safety Equipment</li> <li>Personal Protective Equipment (PPE)</li> </ul>			
<ul> <li>Work Permit System</li> <li>Safety Equipment</li> <li>Personal Protective Equipment (PPE)</li> </ul>			
Safety Equipment     Personal Protective Equipment (PPE)		Safety Systems in Industry	
Personal Protective Equipment (PPE)			
	<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical	
Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics			

#	Syllabus
<u>Part I</u>	<ul> <li>Measurement systems like Vernier Callipers, Micrometers, Wire Gauge</li> </ul>
	Cutting & Threading
	Scrapping and Abrasive Operations
	Pipe Joints – Flanged or welding
	Machining
	<ul> <li>Fire Fighting Equipment</li> </ul>
	Hydraulic Machines (Practical aspects)
	Pumps, Compressors, Turbines (Practical Aspects)
	Workshop technology
	Engineering Materials
	Welding Science
	Safety Systems in Industry
	Work Permit System
	Safety Equipment
	Personal Protective Equipment (PPE)
<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical
	Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics]

#### 3. Foreman (Electrical)

#	Syllabus
# Part I	Syllabus> Basic Physics & Ohm's Law, Kirchoff's law etc.> Electrical Insulation> Electrical circuits> Electrical machines-Transformers, Generators, AC & DC Motors etc.> Electrical Power system> Electrical measurements and measuring instruments> Electrical Protection system> HT & LT Switchgear Panel & it's accessories> Winding technique> Wiring and lighting> Electrical earthing system> Battery Banks system> Electrical Wiring and Jointing
	<ul> <li>Safety Systems in Industry         <ul> <li>Work Permit System</li> <li>Safety Equipment</li> <li>Personal Protective Equipment (PPE)</li> </ul> </li> </ul>
<u>Part II</u>	<ul> <li>General Aptitude Test (Viz. General Knowledge, Logical Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics)</li> </ul>

#### 4. Foreman (Instrumentation)

#	Syllabus
Part I	Electrical Insulation
	Basics of circuits and Measurement systems
	Transducers, mechanical measurement and industrial instrumentation
	Electrical and electronic measurements
	Control system and process control including control valves, pressure safety valves etc.
	Measuring instruments - Pressure gauges, temperature gauges, flowmeters, level gauges, pressure transmitters, temperature transmitters etc.
	Calibration of instruments
	Instrument tubings
	Loop checking
	P & ID diagrams
	Electrical Wiring and Jointing
	Safety Systems in Industry
	Work Permit System
	Safety Equipment
	Personal Protective Equipment (PPE)
<u>Part II</u>	<ul> <li>General Aptitude Test (Viz. General Knowledge, Logical Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics)</li> </ul>

# 5. Foreman (Civil)

#	Syllabus
Part I	Surveying
	Plain Table Survey
	Theodolite Surveying
	Soil Survey and Analysis
	Cement Concrete and Reinforced Cement Concrete
	<ul> <li>Basics of Plain Cement Concrete (different grades)</li> </ul>
	<ul> <li>Basics of Design Mix Concrete (different grades)</li> </ul>
	Building Materials
	• Sand
	Aggregates
	Cement
	Bricks
	Material Testing
	Concrete Testing
	Bricks Testing
	Aggregates Testing
	Plumbing & Sewerage
	<ul> <li>Basic of Plumbing (Pipes &amp; Flow Analysis)</li> </ul>
	Safety Systems in Industry
	Permit System
	Safety Equipment
	Personal Protective Equipment (PPE)
<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics

# 6. Jr. Superintendent (Official Language)

#	Syllabus
<u>Part I</u>	<ul> <li>Knowledge of Official Language policy and OL act 1963 and provisions thereof</li> <li>OL rules 1976 and various provisions and rules framed under it</li> <li>Comprehension in Hindi &amp; English</li> <li>Administrative terminology (Hindi &amp; English)</li> <li>Hindi literature</li> </ul>
	🕨 Hindi grammar
<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics)

#### 7. Jr. Chemist

#	Syllabus
Part I	Polymer chemistry
	Inorganic chemistry
	Physical chemistry
	Organic chemistry
	Water chemistry
	Environmental Chemistry
	Analytical chemistry
	Principle of chromatography
	Testing equipment in Labs
	Classification of elements
Part II	General Aptitude Test (Viz. General Knowledge, Logical
	Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics)

#### 8. Jr. Accountant

	#	Syllabus	
	Accountancy	<ul> <li>Accounting concepts and conventions</li> <li>Property Plant &amp; Equipment's (Ind AS 16)</li> <li>Depreciation, Depletion and Amortization (Concepts &amp; Methods)</li> <li>Inventory Valuation (Ind As 2)</li> <li>Capital and Revenue expenditure/receipts</li> <li>Bank Reconciliation Statement &amp; Rectification of Errors</li> </ul>	
		<ul> <li>Lease/ Hire Purchase Accounting (Ind AS 116)</li> <li>Revenue Recognition (Ind As 115)</li> <li>Impairment of Assets (Ind As 36)</li> <li>Cash Flow Statements (Ind As 7)</li> <li>Events after Reporting Period (Ind As 10)</li> <li>Ind-AS: An overview and compliance (Ind As 1,8,37,)</li> </ul>	
	Basic of Mercantile Law	<ul> <li>Contract Act, 1872</li> <li>Sale of Goods act, 1930</li> <li>Negotiable Instruments Act, 1881</li> <li>Payment of Gratuity Act, 1972</li> </ul>	
	Company's Act 2013	<ul> <li>Accounts &amp; Audit</li> <li>Schedule II (Depreciation)</li> <li>Schedule-III (Financial Statements)</li> <li>CSR provision</li> </ul>	
Part-I	Income Tax Ad 1961	<ul> <li>Income Tax - Basic Concepts, Residential Status</li> <li>Exempted Income and Income Tax Deductions (Chapter-VI A of Income Tax 1961)</li> <li>Heads of Income (concepts &amp; key provisions)</li> <li>Provision relating to TDS &amp; Forms to be filed with Income Tax Department</li> </ul>	
	Goods & Services Act & Indirect Tax	<ul> <li>Fundamental Concepts of GST (Basic Concepts, Composit Levy and Registration, Returns and Assessment)</li> <li>GST Input Tax credit provisions / Documentations Customs Act &amp; Rules</li> </ul>	ion
	Cost accounting Management Accounting	<ul> <li>Cost Accounting basic – Material, Labour &amp; Overhead</li> <li>Fixed Cost &amp; Variable Cost</li> <li>Marginal &amp; Relevant / Incremental Costing, Decision Making, Absorption Costing, Activity Based Costin</li> <li>Methods of Costing</li> <li>Budget and Budgetary Control</li> <li>Variance Analysis</li> </ul>	
	<ul> <li>Financial</li> <li>Management</li> </ul>	<ul> <li>Basic Concepts</li> <li>Financial Ratio Analysis</li> <li>Capital Budgeting</li> <li>Cost of Capital &amp; Working Capital Management</li> </ul>	
	<ul> <li>Computer (MS – Office) and finance packages proficier</li> </ul>	al	

Part	> General Aptitude Test (Viz. General Knowledge, Logical Reasoning, Current
<u>II</u>	Affairs, Visual Reasoning, English Comprehension, Mathematics)

# 9. Technical Assistant (Laboratory)

#	Syllabus
Part I	Polymer chemistry
	Basic chemistry
	Environmental Chemistry
	Analytical chemistry
	Water chemistry
	Principle of chromatography
	Testing equipment in Labs
<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical
	Reasoning, Current Affairs, Visual Reasoning, English
	Comprehension, Mathematics)

# 10. Operator (Chemical)

#	Syllabus
Part I	Atomic Mass, Atoms
	States of matter, Acids and Bases, Oxidation
	Hydrocarbons, Petrochemicals, Distillation, Refining,
	exchange equipment, humidification operation, Refrigeration
	and liquefaction
	Petroleum Refinery Technology (Practical)
	Fertilizer Technology (Practical)
	Basics of Organic/ Inorganic Chemistry
	Basics of unit operations
	Operation of
	• Pumps
	Rotary Compressors
	Blowers
	Heat Exchangers
	Safety Systems in Industry
	Work Permit System
	Safety Equipment
	Personal Protective Equipment (PPE)
<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical
	Reasoning, Current Affairs, Visual Reasoning, English
	Comprehension, Mathematics)

# 11. Technician (Electrical)

#	Syllabus
Part I	Basic Physics & Ohm's Law, Kirchoff's law etc.
	<ul> <li>Electrical Insulation</li> </ul>
	Electrical circuits
	Electrical machines-Transformers, Generators, AC & DC
	Motors etc.
	Electrical Power system
	Electrical measurements and measuring instruments
	Electrical Protection system
	HT & LT Switchgear Panel & it's accessories
	Winding technique
	Wiring and lighting
	<ul> <li>Electrical earthing system</li> </ul>
	Battery Banks system
	Electrical Wiring and Jointing
	Safety Systems in Industry
	Work Permit System
	Safety Equipment
	<ul> <li>Personal Protective Equipment (PPE)</li> </ul>
<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical
	Reasoning, Current Affairs, Visual Reasoning, English
	Comprehension, Mathematics)

# 12. Technician (Instrumentation)

#	Syllabus
Part I	Electrical Insulation
	Basics of circuits and Measurement systems
	Transducers, mechanical measurement and industrial instrumentation
	Electrical and electronic measurements
	Control system and process control including control valves, pressure safety valves etc.
	Measuring instruments - Pressure gauges, temperature gauges, flowmeters, level gauges, pressure transmitters, temperature transmitters etc.
	Calibration of instruments
	Instrument tubings
	Loop checking
	P & ID diagrams
	Electrical Wiring and Jointing
	Safety Systems in Industry
	Work Permit System
	Safety Equipment
	<ul> <li>Personal Protective Equipment (PPE)</li> </ul>
<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics)

#### 13. Technician (Mechanical)

#	Syllabus
Part I	Measurement systems like Vernier Callipers, Micrometers, Wire Gauge
	Cutting & Threading
	Scrapping and Abrasive Operations
	Pipe Joints – Flanged or welding
	Machining
	Fire Fighting Equipment
	Hydraulic Machines (Practical aspects)
	Pumps, Compressors, Turbines (Practical Aspects)
	Workshop technology
	Engineering Materials
	Welding Science
	Safety Systems in Industry
	Work Permit System
	Safety Equipment
	Personal Protective Equipment (PPE)
<u>Part II</u>	[General Aptitude Test (Viz. General Knowledge, Logical Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics]

# 14. Technician (Telecom & Telemetry)

#	Syllabus
<u>Part I</u>	Basics of Networking and Network Devices such as, Router, Switches, Modems
	Motherboard, CPU, Memory
	Electrical Wiring and Jointing
	Basics of Communication systems – Wired and Wireless systems, OFC, Microwave etc.
	UPS & Batteries
	Basics of Power Electronics such as rectifiers, DC/AC converters etc.
	GPRS, GSM, 3G, 4G
	Mobile and other Wireless Device (walkie talkie etc.) Communication
	Basic Analog Electronics
	Digital electronics Basics
	Semiconductors Basics
	Transistors Basics
	Instruments and measurements Basics
	Computer and microprocessor Basics
	Amplifiers and oscillators
	Safety Systems in Industry
	Work Permit System
	Safety Equipment
	Personal Protective Equipment (PPE)
<u>Part II</u>	<ul> <li>General Aptitude Test (Viz. General Knowledge, Logical Reasoning, Current Affairs, Visual Reasoning, English Comprehension, Mathematics)</li> </ul>

# 15. Operator(Fire)

#	Syllabus
Part I	Chemistry of Fire & Extinction Methods
	Fire Extinguishing Mediums
	Fire Hose & fittings
	Ladders
	Lines and knots
	Fire Pumps & Hydrant System, water network
	Portable Fire Extinguishers, small gears
	Breathing Apparatus Set & BA Procedure
	Basic First Aid & CPR
	Electrical Fires
	High Rise Building & Evacuation Methods
	Fixed Fire Fighting Systems
	Hydrocarbon Fire Fighting
	Mobile Fire Appliances /Fire tender
	Fire Ground Operation
	Communication & mobilization
	Control Room Operations & Procedure
	Work Permit System
	Rescue & search methods, Methods of entry and types
	Fireman's Outfit & donning capability
	Fire Drills
	Personnel Protective Equipment
<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical
	Reasoning, Current Affairs, Visual Reasoning, English
	Comprehension, Mathematics)

# 16. Operator (Boiler)

#	Syllabus
Part I	Atomic Mass, Atoms,
	States of matter, Acids and Bases, Oxidation
	Measurements
	Steam Properties
	Boiler Technology
	Water Chemistry
	Basics of Inorganic/ Organic Chemistry
	Basics of unit operations
	Operation of
	o Pumps
	<ul> <li>Steam Turbines</li> </ul>
	<ul> <li>Fans/ Blowers</li> </ul>
	• Heat Exchangers
	Safety Systems in Industry
	<ul> <li>Work Permit System</li> </ul>
	<ul> <li>Safety Equipment</li> </ul>
	O Personal Protective Equipment (PPE)
<u>Part II</u>	General Aptitude Test (Viz. General Knowledge, Logical
	Reasoning, Current Affairs, Visual Reasoning, English
	Comprehension, Mathematics)

#### **17. Accounts Assistant**

#	Syllabus
Part I	Accountancy o Accounting concepts and conventions
	<ul> <li>Property Plant &amp; Equipment's</li> </ul>
	<ul> <li>Depreciation, Depletion and</li> </ul>
	Amortization (Concepts & Methods)
	<ul> <li>Inventory Valuation</li> </ul>
	<ul> <li>Capital and Revenue expenditure/receipts</li> </ul>
	<ul> <li>Bank Reconciliation Statement &amp; Rectification of</li> </ul>
	Errors
	<ul> <li>Lease/ Hire Purchase Accounting</li> </ul>
	<ul> <li>Revenue Recognition</li> </ul>
	<ul> <li>Impairment of Assets</li> </ul>
	<ul> <li>Cash Flow Statements</li> </ul>
	Basic of o Contract Act, 1872
	Mercantile o Sale of Goods act, 1930
	Law o Negotiable Instruments Act, 1881
	Company's o Accounts & Audit
	Act 2013 O Schedule II (Depreciation)
	<ul> <li>Schedule-III (Financial Statements)</li> </ul>
	<ul> <li>CSR provision</li> </ul>
	Income Tax o Income Tax - Basic Concepts, Residential Status
	Act 1961 O Exempted Income and Income Tax Deductions
	(Chapter-VI A of Income Tax 1961)
	<ul> <li>Heads of Income (concepts &amp; key provisions)</li> </ul>
	<ul> <li>Provision relating to TDS &amp; Forms to be filed with</li> </ul>
	Income Tax Department
	Goods & o Fundamental Concepts of GST
	Services Act o GST Input Tax credit provisions / documentations
	Cost o Cost Accounting basic – Material, Labour &
	accounting & Overhead
	Management o Fixed Cost & Variable Cost
	Accounting o Marginal & Relevant / Incremental Costing, Decision
	Making
	<ul> <li>Methods of Costing</li> </ul>
	Financial o Basic Concepts
	Management o Financial Ratio Analysis
	<ul> <li>Capital Budgeting</li> </ul>
	Computer
	(MS – Office)
	and financial
	packages
	proficiency
Part II	<ul> <li>General Aptitude Test (Viz. General Knowledge, Logical Reasoning,</li> </ul>
<u> </u>	Current Affairs, Visual Reasoning, English Comprehension, Mathematics)

#### 18. Business Assistant

	Syllabus
Part I	Basics of computers and applications for day-to-day office tasks
<u></u>	1. Introduction to Computers
	Basic computer operations (booting, shutdown,
	restart)
	Basic Microsoft Windows operating system tasks (cut,
	copy, paste, etc.)
	File management (create, rename, delete, and
	organise files and folders)
	2. Software Applications
	2.1. Microsoft Word
	Creating, saving, and opening Word documents
	Formatting text (font styles, size, colour, alignment)
	Using bullet points and numbering
	Inserting tables, images, and hyperlinks
	Page layout (margins, orientation, page breaks)
	2.2. Microsoft Excel
	Concept of Excel workbooks and sheets
	Basic data entry and formatting
	Sorting and filtering data
	Using formulas and functions (SUM, AVERAGE, MAX,
	MIN, IF, etc.)
	Creating and formatting charts
	2.3. Microsoft PowerPoint
	Creating and saving PowerPoint presentations
	Slide layouts and designs
	Adding and formatting text, images, and multimedia
	Slide transitions and animations
	2.4. Microsoft Outlook (Email and Calendar)
	Composing, sending, and receiving emails in Outlook
	Email attachments and signatures
	<ul> <li>Organizing emails (folders, categories, flags)</li> </ul>
	Calendar management (scheduling meetings, setting
	reminders)
	Contact management
	Understanding Cc and Bcc
	Recognizing and avoiding phishing scams
	2.5. Internet & Web Browsing
	Using web browsers (Chrome, Firefox, Edge) and
	Search Engines
	Basic understanding of cloud storage (OneDrive,
	Google Drive, etc.)
	2.6. Data Security
	Understanding basic cybersecurity principles
	Creating and managing strong passwords
	Basic PC data backup practices
Part II	General Aptitude Test (Viz. General Knowledge, Logical
	Reasoning, Current Affairs, Visual Reasoning, English
	Comprehension, Mathematics)