



ગુજરાત જાહેર સેવા આયોગ

છ-૩ સર્કલ પાસે, છ રોડ, સેક્ટર-૧૦/એ, ગાંધીનગર-૩૮૨૦૧૦

ખ.ક.૧૦૮/૨૦૧૯-૨૦

જાગ્યાનું નામ: ઇન્ડસ્ટ્રીયલ પ્રમોશન ઓફીસર, વર્ગ-૨
(ઉદ્યોગ અને ખાણ વિભાગ)

ભાગ-૧ અને ભાગ-૨ ના ૧૮૦ મિનિટના સંયુક્ત પ્રશ્નપત્રની પ્રાથમિક કસોટીનો અભ્યાસક્રમ

પ્રાથમિક કસોટીનો અભ્યાસક્રમ ભાગ-૧	
માધ્યમ: ગુજરાતી	કુલ ગુણ : ૧૦૦
૧	ભારતની ભૂગોળ- ભૌગોલિક, આર્થિક, સામાજિક, કુદરતી સંસાધન અને વસ્તી અંગેની બાબતો- ગુજરાતના ખાસ સંદર્ભ સાથે
૨	ભારતનો સાંસ્કૃતિક વારસો- સાહિત્ય, કલા, ધર્મ અને રચાપત્યો- ગુજરાતના ખાસ સંદર્ભ સાથે
૩	ભારતનો ઇતિહાસ- ગુજરાતના ખાસ સંદર્ભ સાથે
૪	ભારતની અર્થવ્યવસ્થા અને આયોજન
૫	ભારતીય રાજનીતિ અને ભારતનું બંધારણ: (૧) આમુખ (૨) મૂળભૂત અધિકારો અને હુરખે (૩) રાજ્યનીતિના માર્ગદર્શક સિદ્ધાંતો (૪) સંસદની રચના (૫) રાષ્ટ્રપતિની સત્તા (૬) રાજ્યપાલની સત્તા (૭) ન્યાયતંત્ર (૮) અનુચિત જાતિ, અનુચિત જનજાતિ અને સમાજના પછાત વર્ગો માટેની જોગવાઈઓ (૯) એટર્ની જનરલ (૧૦) નીતિ આયોગ (૧૧) પંચાયતી રાજ (૧૨) નાણા પંચ (૧૩) બંધારણીય તથા વૈધનિક સંસ્થાઓ- ભારતનું ચૂંટણી પંચ, સંઘ લોક સેવા આયોગ, રાજ્ય લોક સેવા આયોગ, કોમ્પ્રોલર એન્ડ ઓડિટર જનરલ; કેન્દ્રીયસતર્કતા આયોગ, લોકપાલ તથા લોકાયુક્ત અને કેન્દ્રીય માહિતી આયોગ

ક	સામાન્ય બૌદ્ધિક ક્ષમતા કસોટી
૭	સામાન્ય વિજ્ઞાન, પર્યાવરણ અને ઈન્ફર્મેશન એન્ડ કોમ્યુનિકેશન ટેકનોલોજી
૮	ખેલ જગત સહિત રોજબરોજના પ્રાદેશિક, રાષ્ટ્રીય અને આંતરરાષ્ટ્રીય મહત્વના બનાવો

Syllabus of Preliminary Test Part-1	
Medium: Gujarati	Total Marks-100
1	Geography of India-Physical, Economic, Social, Natural Resources and population related topics- with special reference to Gujarat
2	Cultural heritage of India-Literature, Art, Religion and Architecture- with special reference to Gujarat
3	History of India with special reference to Gujarat
4	Indian Economy and Planning
5	<u>Indian Polity and the Constitution of India:</u> <ol style="list-style-type: none"> 1. Preamble 2. Fundamental Rights and Fundamental Duties 3. Directive Principles of State Policy 4. Composition of Parliament 5. Powers of the President of India 6. Powers of Governor 7. Judiciary 8. Provisions for Scheduled Castes, Scheduled Tribes and backward classes of the society 9. Attorney General 10. NITIAayog 11. Panchayati Raj Institutions 12. Finance Commission 13. Constitutional and Statutory Bodies: Election Commission of India, Union Public Service Commission, State Public Service Commission, Comptroller and Auditor General; Central Vigilance Commission, Lokpal and Lokayukta, Central Information Commission
6	General Mental Ability
7	General Science, Environment and Information & Communication Technology
8	Daily events of Regional, National and International Importance including Sports

Part-2

Syllabus for the preliminary test for the recruitment on the post of Industrial Promotion Officer, Class-2 Industries and Mines Department

Marks – 200

Questions – 200

Medium - English

1. Important Engineering Materials

Properties of materials, Ferrous & Nonferrous materials and other important engineering materials, such as Timber, Abrasive material, silica, ceramics, glass, graphite, diamond, plastic, polymer and composite material.

Lubricants: Definition, Types, classification and their properties, Functions.

Natural and Synthetic Fibres: Introduction, Definition of Fibre, Types of fibres – Natural, semi synthetic, synthetic fibres. Physical properties of fibres. Essential requirement for fibre for formation. Preparation, properties and uses of Cellulose acetate, Viscose Rayon, Nylon, Polyesters acrylic, Glass fibres etc. Differentiate between wool and silk fibres. Spinning processes – Melt and Wet spinning.

2. Elements of Mechanical Engineering

Introduction, Prime movers, Sources of energy, Types of prime movers, Force and mass, Pressure, Work, Power, Energy, Heat, Temperature, Units of heat, Specific heat capacity, Interchange of heat, Change of state, Mechanical equivalent of heat, Internal energy, Enthalpy, Entropy, Efficiency, Statements of Zeroth Law, First law and Second Law of Thermodynamics.

3. Elements of Electrical Engineering

D.C. Circuits: - Effect of Temperature upon Resistance, Solutions of series, parallel in brief, star-delta combination of Resistances, KVL & KCL.

Electrical Wiring: Connectors & switches, system of wiring, domestic wiring installation, sub circuits in domestic wiring, simple control circuit in domestic installation, industrial electrification.

Illumination: Types of lamps, fixtures & reflectors, illumination schemes for domestic, industrial & commercial premises, Lumen requirements for different categories.

Safety & protection: Safety, electric shock, first aid for electric shock other hazards of electrical laboratories & safety rules, use of multi meters, grounding, importance of grounding, equipment of grounding for safety. Circuit protection devices, fuses, MCB, ELCB & relays.

4. Elements Computer and IT Engineering:

Introduction, Basic block Diagram and functions of various components of computer. Concept of Hardware and Software. Concept of basic types of software. Introduction to programming and programming languages. Flow charts and algorithms.

5. Principles of Management

Historical Development, Definition of Management, Management and Administration, Functions of Management, Types of Business Organization, Concept of Business Ethics and Social Responsibility, Tools of Ethics: Planning, Organising, Directing, Controlling.

6. Production & Operations Management

Operations Strategy and Competitiveness, Product Design and Process Selection – Manufacturing, Facility Location, Facility Layout, Forecasting, Inventory Management, MRP, Aggregate Planning, Operations Scheduling, Project Management, Queuing - The Management of Waiting Lines, Supply Chain Management, Quality Management and Statistical Quality Control.

7. Economic System and Business

Economic System: capitalism, socialism and mixed economy, National Income, Monetary and Fiscal Policy, Industrial Policy, Union

Budget, Social Environment, Technological Environment, International Business Environment.

8. Financial Management

Meaning of Financial Management, Financial System, Working Capital Management as a Decision to Create Value for the Business, Investment Decision and Various Steps Involved Financing Decision and Various Sources of Finance, Dividend Decision, Theory and Practice.

9. Human Resource Management

Industrial Relations – Definitions and Main Aspects, Trade Union Legislations, Methods of settling Industrial Disputes, Legislations Concerning Settlement of Industrial Disputes, Factories Act, Minimum Wage Legislation, The Strategic Role of Human Resources Management, International Labor Organization, Corporate governance and Social Responsibilities.

10. Entrepreneurship

Entrepreneur: meaning, importance, Qualities, nature types, traits, culture. Entrepreneurship and economic development: its importance, Role of entrepreneurship, entrepreneurial environment.

11. Constitutional Support and Framework for Entrepreneurship:

Institutions – All India, State Level and Fund-Based, Supporting Policies of Entrepreneurship, Industrial Policy, Fiscal Incentives, Measures for Promotion and Development of Entrepreneurs.

12. Small Business & Management of MSMEs

Concept & Definition, Role of Small Business in the modern Indian Economy, Small entrepreneur in International business; Steps for starting a small industry, registration as SSI, Role of SIDBI; advantages and problems of SSIs; Institutional Support mechanism in India; Incentives & Facilities, Govt. Policies for SSIs, Setting MSMEs- location of enterprise - steps in setting - Problems of entrepreneurs - Sickness in small industries - reasons and remedies - Incentives and subsidies -

Evaluating entrepreneurial performance - Rural entrepreneurship - Women Entrepreneurship.

13. **Organizational setup and functions of various departments/ divisions/ institutions/ boards under ministry of commerce and industry, Government of India.**
14. **Various Government Policies and Acts:**
New Industrial Policy, 2015 of Government of Gujarat, State Government's Cluster Development Policy and various R & D institutions, State Government's Cottage and Rural Industries Policy 2016, The Micro, Small and Medium Enterprises Development Act, 2006, The Gujarat Special Economic Zones Act, 2004, The Gujarat Industrial Development Act, 1962 etc.
15. **Various Schemes (including bankable schemes) for Industrial Development of Central Government and Gujarat State Government. (Schemes related to Cottage Industry).**
16. **Bank Loan and other Alternative Financing Methods for Start-ups.**
17. **Business Plan Writing:** Traditional methods and latest Technology, Project Profile Preparation.
18. **Product Certification:** Product Certification scheme of BIS (Bureau of Indian Standards), Procedure for Application, Grant of License by BIS, Products under mandatory Certification, Compulsory Registration Scheme, Implementation of the Geographical Indications of Goods (Registration & Protection) Act, 1999 Geographical Identification Index (GI Mark).
19. **Export Promotion of handloom and handicraft products.**
20. **State Government's policy for vocational training,** vocational training centers in Gujarat with reference to Cottage industry. Pattern

of Cottage and rural industry in Gujarat. State Government's initiative to promote Cottage and rural industry. Self Help Groups and NGO related to Cottage industries. National Handloom Development Program and National Handloom Development Corporation. Handloom reservation Act 1985.

21. Current Trends and Recent Advancements in the field of Industrial Development.
