



ગુજરાત જાહેર સેવા આયોગ

સેક્ટર - ૧૦-એ, છ-૩ સર્કલ પાસે, છ રોડ,

ગાંધીનગર - ૩૮૨૦૧૦

જાહેરાત ક્રમાંક:૧૮/૨૦૨૪-૨૫, નાયબ બાગાયત નિયામક, વર્ગ-૧ ની જગ્યા પર
ભરતી માટેની પ્રાથમિક કસોટીમાં ભાગ-૧ અને ભાગ-૨ ના ૧૮૦ મિનિટના સંયુક્ત
પ્રશ્ન પત્રનો અભ્યાસક્રમ

સીધી પસંદગીથી ભરતીની પ્રાથમિક કસોટીનો અભ્યાસક્રમ		
ભાગ-૧		
માધ્યમ: ગુજરાતી અને અંગ્રેજી. કુલ ગુણ : ૧૦૦		
મુદ્દા	વિષય	ગુણ
૧	ભારતની ભૂગોળ- ભૌગોલિક, આર્થિક, સામાજિક, કુદરતી સંસાધન અને વસ્તી અંગેની બાબતો- ગુજરાતના ખાસ સંદર્ભ સાથે	૩૦
૨	ભારતનો સાંસ્કૃતિક વારસો- સાહિત્ય, કલા, ધર્મ અને સ્થાપત્યો- 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 ફરજો (૩) રાજ્યનીતિના માર્ગદર્શક સિદ્ધાંતો (૪) સંસદની રચના (૫) રાષ્ટ્રપતિની સત્તા (૬) રાજ્યપાલની સત્તા (૭) ન્યાયતંત્ર (૮) અનુસ્થાપિત જાતિ, અનુસ્થાપિત જનજાતિ અને સમાજના પછાત વર્ગો માટેની ખેગવાઈઓ (૯) નીતિ આયોગ (૧૦) બંધારણીય તથા વૈધાનિક સંસ્થાઓ- ભારતનું ચૂંટણી પંચ, કોમ્પ્યુટર એન્ડ ઓડિટર જનરલ, માહિતી આયોગ	
૬	સામાન્ય વિજ્ઞાન, પર્યાવરણ અને ઈન્ફર્મેશન એન્ડ કોમ્યુનિકેશન ટેકનોલોજી	૧૦
૭	ખેલ જગત સહિત રોજબરોજના પ્રાદેશિક, રાષ્ટ્રીય અને આંતરરાષ્ટ્રીય મહત્વના બનાવો	૧૦
૮	સામાન્ય બૌદ્ધિક ક્ષમતા કસોટી (૧) તાર્કિક અને વિશ્લેષણાત્મક ક્ષમતા	૩૦

	<p>(૨) સંખ્યાઓની શ્રેણી સંકેત અને તેનો ઉકેલ.</p> <p>(૩) સંબંધ વિષયક પ્રશ્નો.</p> <p>(૪) આકૃતિઓ અને તેના પેટા વિભાગ, વેન આકૃતિઓ</p> <p>(૫) ઘડીયાળ, કેલેન્ડર અને ઉંમર સંબંધિત પ્રશ્નો.</p> <p>(૬) સંખ્યા વ્યવસ્થા અને તેના માનકમ.</p> <p>(૭) રૈખિક સમીકરણ (એક કે બે ચલમાં)</p> <p>(૮) પ્રમાણ, હિસ્સો અને ચલ.</p> <p>(૯) સરેરાશ યા મધ્યક, મધ્યચય અને બહુલક, ભારિત સરેરાશ. .</p> <p>(૧૦) ઘાત અને ઘાતાંક, વર્ગ, વર્ગમૂળ, ઘનમૂળ, ગુ.સા.અ. અને લ.સા.અ</p> <p>(૧૧) ટકા, સાદુ અને ચક્રવૃદ્ધિ વ્યાજ, નહો અને ગુકશાન.</p> <p>(૧૨) સમય અને કાર્ય, સમય અને અંતર, ઝડપ અને અંતર.</p> <p>(૧૩) સરળ ભૌતિક આકૃતિઓના ક્ષેત્રફળ અને પરિમિતિ, જથ્થો અને સપાટીનો વિસ્તાર (છ સમાંતર બાજુ ધરાવતો ઘન, ઘન, સિલિન્ડર, શંકુ આકાર, ગોળાકાર).</p> <p>(૧૪) રેખા, ખૂણા અને સામાન્ય ભૌમિતિક આકૃતિઓ-સાદી કે ત્રાંસી સમાંતર રેખાઓના ગુણધર્મો, ત્રિકોણની સાપેક્ષ બાજુઓના માપનના ગુણધર્મો, પાયથાગોરસનો પ્રમેય, ચતુર્ભુજ, લંબગોળ, સમાંતર બાજુ ચતુષ્કોણ, સમભૂજ ચતુષ્કોણ.</p> <p>(૧૫) બીજગણિતનો પરિચય-BODMAS-કાનાભાગુવઓ-વિચિત્ર પ્રતિકોની સરળ સમજૂતિ.</p> <p>(૧૬) માહિતીનું અર્થઘટન, માહિતીનું વિશ્લેષણ, માહિતીની પર્યાપ્તતા, સંભાવના</p>	
૯	<p>ગુજરાતી વ્યાકરણ</p> <p>(૧) બેડણી</p> <p>(૨) સમાનાર્થી-વિરુદ્ધાર્થી શબ્દો</p> <p>(૩) રૂઢિપ્રયોગો અને કહેવતો</p> <p>(૪) સમાસ</p> <p>(૫) સંધિ</p> <p>(૬) અલંકાર</p> <p>(૭) છંદ</p>	૧૦
૧૦	<p>English Grammar</p> <p>(1) Articles, Pronouns, Adjectives, Prepositions, Conjunctions and Question tag.</p> <p>(2) Verb and Tense, Agreement between subject and verb, Gerund, Participles.</p> <p>(3) Modal auxiliaries. Usage of can, may, could, should, etc.</p> <p>(4) Use of some, many, any, few, a little. Since and for.</p> <p>(5) Active and passive voice</p> <p>(6) Degrees of adjectives.</p> <p>(7) Common errors of usage.</p>	૧૦

❖ મુદ્દા ક્રમાંક ૮ થી ૧૦ માટેનો અભ્યાસક્રમ ધોરણ- ૧૨ સમકક્ષ રહેશે.

**Syllabus for preliminary test for recruitment from Direct Selection
Part-1**

**Medium: Gujarati and English
Marks: 100**

Total

Point No	Subject	Marks
1	Geography of India – Geographical, Economic, Social, Natural Resources and Population related topics – With Special reference to Gujarat	30
2	Cultural Heritage of India – Literature, Arts, Religion and Architecture - With Special reference to Gujarat	
3	History of India- With Special reference to Gujarat	
4	Indian Economy and Planning	
5	Indian Politics and Constitution of India: (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 Casts, Scheduled Tribes and Backward Classes of the society (9) NITI Aayog (10) Constitutional and Statutory Bodies: Election Commission of India, Comptroller and Auditor General, Information Commission	
6	General Science, Environment and Information & Communication Technology	10
7	Daily events of Regional, National and International Importance including Sports	10
8	General Mental Ability Test (1) Logical Reasoning and Analytical Ability (2) Number Series, Coding-Decoding (3) Questions about relationship. (4) Shapes and their Sub-sections, Venn Diagram (5) Questions based on Clock, Calendar and Age (6) Number system and order of Magnitude (7) Linear Equations - in one or two Variables (8) Ratio, Proportion and Variation (9) Average of Mean, Median, Mode- including weighted Mean (10) Power and Exponent, Square, Square Root, Cube Root, H.C.F. & L.C.M. (11) Percentage, Simple and Compound Interest, Profit and Loss (12) Time and Work, Time and Distance, Speed and Distance (13) Area and Perimeter of Simple Geometrical Shapes, Volume and Surface Area of Sphere, Cone, Cylinder, Cubes and Cuboids	30

	<p>(14) Lines, Angles and Common geometrical figures - properties of transverse or parallel lines, properties related to measure sides of a triangle, Pythagoras theorem, quadrilateral, rectangle, Parallelogram and rhombus.</p> <p>(15) Introduction to algebra-BODMAS, simplification of weird Symbols.</p> <p>(16) Data interpretation, Data Analysis, Data sufficiency, Probability</p>	
9	<p>Gujarati Grammar</p> <p>(૧) જોડણી</p> <p>(૨) સમાનાર્થી-વિરુદ્ધાર્થી શબ્દો</p> <p>(૩) રૂઢિપ્રયોગો અને કહેવતો</p> <p>(૪) સમાસ</p> <p>(૫) સંધિ</p> <p>(૬) અલંકાર</p> <p>(૭) છંદ</p>	10
10	<p>English Grammar</p> <p>(1) Articles, Pronouns, Adjectives, Prepositions, Conjunctions and Question tag.</p> <p>(2) Verb and Tense, Agreement between subject and verb, Gerund, Participles.</p> <p>(3) Modal auxiliaries. Usage of can, may, could, should, etc.</p> <p>(4) Use of some, many, any, few, a little. Since and for.</p> <p>(5) Active and passive voice</p> <p>(6) Degrees of adjectives.</p> <p>(7) Common errors of usage.</p>	10

❖ The standard of the syllabus for point no. 8 to 10 will be equivalent to Standard 12.

**Syllabus for Preliminary Test for the recruitment of Deputy
Director of Horticulture, Class I**

Marks – 200

Questions – 200

Medium - English

1. **Fruit Science:** Tropical and Dry Land Fruit Production. Subtropical and Temperate Fruit Production. Biodiversity, Conservation, Canopy Management, Propagation Nursery Management, Breeding and Post Harvest Technology for Fruit Crops. Growth, Development and Biotechnology of Horticultural Crops. Organic Horticulture. Protected Fruit Culture. Gap for Horticultural Crops. Climate Management in Horticultural Production. Advances in Breeding, Production and Growth Regulation of Fruit Crops. Genomics and Bioinformatics in Horticulture. Principles of Genetics and Cytogenetics. Biotic and Abiotic Stress Management in Horticultural Crops. Systematics of Fruits Crops.

2. **Vegetable Science:** Production Technology of Cool Season and Warm Season Vegetable Crops. Breeding, Growth, Development, Seed Production Technology and Systematics of Vegetable Crops. Production Technology of Underexploited Vegetable Crops. Organic Vegetable Production Technology, Fundamentals of Processing of Vegetables. Advances in Vegetable Production. Advances in Breeding of Vegetable Crops. Protected Cultivation of Vegetable Crops, Biotechnology in Vegetable Crops, Seed Certification, Processing and Storage of Vegetable Crops, Abiotic Stress Management in Vegetable Crops.

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3. **Floriculture and Landscape Architecture:** Breeding of Flower Crops and Ornamental Plants. Production Technology of Cut Flowers. Production Technology for Loose Flowers. Landscaping and Ornamental Gardening. Protected Floriculture. Value Addition in Flowers. Turfing and Turf Management. Advances in Breeding of Flower Crops, Flower Production Technology, Protected and Precision Floriculture, Landscape Architecture, Biochemistry and Biotechnology of Flowers.
4. **Plantation, Spices, Medicinal & Aromatic Crops:** Production Technology, Breeding and Processing of Plantation Crops, Spice Crops, Medicinal and Aromatic Crops. Underexploited Medicinal and Aromatic Crops. Advances in Production of Plantation Crops, Spice Production, Medicinal and Aromatic Crop Production Technology. Advances in Breeding of Plantation Crops, Spices, Medicinal and Aromatic Crops. Biotechnology in Plantation Crops and Spices. Post-Harvest Processing and Extraction in Medicinal and Aromatic Plants. Environmental Horticulture.
5. **Post Harvest Technology:** Principles of Post- Harvest Management for Perishable Horticultural Produce. Fundamentals of Processing of Fruit. Laboratory Analysis and Quality Assurance Techniques of Freshand Processed Horticultural Produce Techniques for Sensory Analysis of Processed Produce. Pre-Harvest Practices affecting Post- Harvest Life of Perishable Horticultural Produce. Principles of Post-Harvest Management of Spices, Plantation Crops, Ornamental, Medicinal and Aromatic Plants. Processing of Plantation Crops, Spices, Medicinal and Aromatic Plants. Packagings for Perishable Horticultural Produce. Packaging Technology of Processed Horticultural Produce. Process Engineering In Horticultural Crops. Advances in Post - Harvest

Management of Fresh Horticultural Produce. Advances in Processing Technology of Horticultural Crops. Packing House Operations and Transportation of Fresh Horticultural Produce. Commercial Aspects of Post- Harvest Technology of Horticultural Produce. Dehydration Technology and Freezing Technology of Horticultural Produce. Fruit and Vegetable Fermentation Technology. Waste Management from Horticulture Processing Industries.

6. **Natural Resource Management (Horticulture):** Fundamentals of Soil Science, Soil Fertility and Nutrient Management, Environmental Science, Water Management in Horticultural Crops, Organic Farming, Soil and Plant Analysis, Farm Power and Machinery.
7. **Basic Concepts for Horticulture development:** Growth and Development of Horticultural Crops, Fundamentals of Extension Education, Elementary Plant Biochemistry Biotechnology, Horti-Business Management, Entrepreneurship Development.
8. **Scenario of horticulture in the state:** Geographical area. Agro climatic zones for horticulture crops. Soil and water resource of the state. Area and production of horticulture crops. Important horticulture crops and its potential areas. Quality of horticulture produce in the state. Important problems of horticultural crops of the state and its solutions. Horticulture development schemes and Horticulture extension activities. Horticulture Research and Research institutes, Horticulture Marketing.
9. **Hi- tech horticulture:** Green house technology and its utility in horticulture. Use of tissue culture, net house and micro irrigation

system in horticulture. Quality and export of horticulture produce/agri export zones.

10. **Weed Management in Horticultural Crops:** Definition, classification and characteristics of weeds, Weed ecology, Principles and methods of weed management, IWM for horticultural crops, management of problematic, parasitic and aquatic weeds. Herbicide protectants and antidotes, Principles of herbicide selectivity. Herbicide resistant weeds and crops.
11. **Principles of Seed Production and Quality Control in Horticultural Crops:** Introduction, Principles of seed production, Seed quality control, seed certification, Seed testing, Seed legislation.
12. **Fundamentals of Soil and Water Conservation Engineering:** Surveying and levelling, Soil erosion, Soil conservation, Irrigation and drainage, Wells and Pumps.
13. **Waste Management in Horticulture Industry:** Introduction to environment, Characteristics of horticulture industrial wastes, Waste water management, Solid waste management, Environmental monitoring and regulations: Green technologies - CDM - eco labeling - biosensors – Bio indicators -environmental impact assessment (EIA), EMS – environmental education and awareness - environmental laws and organizations.
14. **Various Schemes for Horticulture Development of Central Government and Gujarat State Government.**

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15. Organizational setup and functions of various divisions/ institutions/ boards under Department of Agriculture and Farmer's Welfare and Department of Agricultural Research and Education, Government of India. Horticulture division of State Government.

16. Current Trends and Recent Developments in the field of Horticulture.



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