

**જાહેરાત ક્રમાંક: ૨૮/૨૦૧૯-૨૦, બાગાયત અધિકારી, વર્ગ-૨ ની જગ્યા પર ભરતી
માટેની પ્રાથમિક કસોટીમાં ભાગ-૧ અને ભાગ-૨ ના ૧૮૦ મિનિટના સંયુક્ત
પ્રશ્નપત્રનો અભ્યાસક્રમ**

પ્રાથમિક કસોટીનો અભ્યાસક્રમ ભાગ-૧		
કુલ પ્રશ્નો-૧૦૦	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 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) અનુસૂચિત જાતિ, અનુસૂચિત 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, કોમ્પ્ટ્રોલર એન્ડ ઓડિટર જનરલ; કેન્દ્રીયસતર્કતા આયોગ, લોકપાલ તથા લોકાયુક્ત અને કેન્દ્રીય માહિતી આયોગ	
૬	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

Total Questions-100

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> (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

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Syllabus for Preliminary Test for the recruitment of

Horticulture Officer, Class II

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 Off 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.

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.

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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 wastes 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.**
 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 Advancements in the field of Horticulture.**

Manisha 30/7/2018
(MANISHA PATIL)
DEPUTY SECRETARY
GUJARAT PUBLIC SERVICE COMMISSION