

જાહેરાત ક્રમાંક ૧૧૧/૨૦૧૮-૧૯ ખેતી અધિકારી,ગુજરાત ખેતી સેવા વર્ગ-૨
ની જગ્યા પર ભરતી માટેની પ્રાથમિક કસોટીમાં ભાગ-૧ અને ભાગ-૨ ના
૧૮૦ મિનિટના સંયુક્ત પ્રશ્નપત્રો

પ્રાથમિક કસોટીનો અભ્યાસક્રમ	
કુલ પ્રશ્નો-૧૦૦	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 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

Paper-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 the Preliminary Test for the recruitment of
Agriculture Officer, Class II (Advt. 111/2018-19)**

Part-2

Marks – 200

Questions-200

Medium: English

1. Agronomy

Fundamentals of Agronomy. Introductory Agrometeorology & Climate Change. Field Crops (Kharif and Rabi). Crop Production Technology (Kharif Crops and Rabi crops). Farming System and Sustainable Agriculture. Weed Management. Principles of Organic Farming. Geoinformatics, Nano-technology and Precision Farming. Rainfed Agriculture and Watershed Management.

2. Genetics and Plant Breeding

Fundamentals of Genetics. Principles of Seed Technology. Fundamentals of Plant Breeding. Crop Improvement (Kharif and Rabi).

3. Soil Science & Agricultural Chemistry

Fundamentals of Soil Science. Manures, Soil Chemistry and Soil Fertility. Fertilizers and Soil Fertility and Nutrient Management. Problematic Soils and their Management. Agro-chemicals.

4. Entomology

Fundamentals of Entomology. Pests of Crops and Stored Grains and their Management. Management of Beneficial Insects.

5. Agricultural Economics

Fundamentals of Agricultural Economics. Agricultural Finance and Co-Operation. Agricultural Marketing, Trade and Prices. Farm Management, Production and Resource Economics. Agribusiness management.

6. Agricultural Engineering

Introductory Soil and Water Conservation Engineering. Farm Machinery and Power. Renewable Energy and Green Technology. Protected Cultivation and Secondary Agriculture.

7. Plant Pathology

Fundamentals of Plant Pathology. Diseases of Field & Horticultural Crops & their Management. Principles of Integrated Pest and Disease Management. Introductory Nematology.

8. Horticulture

Fundamentals of Horticulture. Production Technology for Fruit and Plantation Crops. Production Technology for Vegetable, Flowers, Aromatic, Medicinal Plantation and Spices. Production Technology for Ornamental Crops, MAPs and Landscaping. Post-harvest Management and Value Addition of Fruits and Vegetables.

9. Food Science & Technology

Principles of Food Science and Nutrition. Concepts of Food Science; Food composition and chemistry; Food microbiology; Principles and methods of food processing and preservation; Food and nutrition, Malnutrition, nutritional disorders; Energy metabolism; Balanced/modified diets, Menu planning, New trends in food science and nutrition.

10. Agricultural Extension

Fundamentals and principles of Agricultural Extension Education. Extension systems in India: extension efforts in pre-independence era (Sriniketan, Marthandam, Firka Development Scheme, Gurgaon Experiment, etc.) and post-independence era (Etawah Pilot Project, Nilokheri Experiment, etc.); various extension/ agriculture development programmes launched by ICAR/ Govt. of India (IADP, IAAP, HYVP, KVK, IVLP, ORP, ND, NATP, NAIP, etc.). New trends in agriculture extension. Rural Sociology & Educational Psychology. Entrepreneurship Development and Business Communication. Extension Methodologies for transfer of Agricultural Technology.

11. Biochemistry/Physiology/Microbiology/Environmental Sciences

Fundamentals of Plant Biochemistry and Biotechnology. Fundamentals of Crop Physiology. Agricultural Microbiology. Environmental Studies and Disaster Management. Introduction to Forestry.

12. Intellectual Property Rights

Introduction and meaning of intellectual property, brief introduction to GATT, WTO, TRIPs and WIPO, Treaties for IPR protection. Types of Intellectual Property and legislations covering IPR in India. Origin and history including a brief introduction to UPOV for protection of plant varieties, Protection of plant varieties under UPOV and PPV&FR Act of India, Plant breeders rights, Registration of plant varieties under PPV&FR Act 2001, breeders, researcher and farmers rights. Traditional knowledge-meaning and rights of TK holders. Convention on Biological Diversity, International treaty on plant genetic resources for food and agriculture (ITPGRFA). Indian Biological Diversity Act, 2002 and its salient features, access and benefit sharing.

13. Animal Production

Livestock & Poultry Management. Role of livestock in the national economy. Reproduction in farm animals and poultry. Housing principles, space requirements for different species of livestock and poultry. Management of calves, growing heifers and milch animals. Management of sheep, goat and swine. Incubation, hatching and brooding. Management of growers and layers. Important Indian and exotic breeds of cattle, buffalo, sheep, goat, swine and poultry. Improvement of farm animals and poultry. Digestion in livestock and poultry. Classification of feedstuffs. Proximate principles of feed. Nutrients and their functions. Feed ingredients for ration for livestock and poultry. Feed supplements and feed additives. Feeding of livestock and poultry. Introduction of livestock and poultry diseases. Prevention (including vaccination schedule) and control of important diseases of livestock and poultry.

14. Programmes and Schemes of Union Government and State Government related to Agriculture. Important agencies (including Board/Corporation) of Union and State Government implementing various programmes and scheme related to Agriculture.

15. Current Trends and Recent Advancements in the field of Agriculture Science.