

જાહેરાત ક્રમાંક : ૦૭/૨૦૧૨-૧૩

જગ્યાનું નામ : ખેતી અધિકારી,વર્ગ-૨

ભાગ-૧ અને ભાગ-૨ ના ૧૦૦ મિનિટના સંયુક્ત પ્રશ્નપત્રની

પ્રાથમિક કસોટીનો અભ્યાસક્રમ

ભાગ-૧

કુલ પ્રશ્નો : ૧૦૦

કુલ ગુણ : ૧૦૦

માધ્યમ : ગુજરાતી

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| ૧  | તાજેતરના મહત્વના રાષ્ટ્રિય, આંતરરાષ્ટ્રિય બનાવો | ૨  | ભારતની તથા વિશ્વની ભુગોળ                                      |
| ૩  | ભારતની રાજનીતિ                                  | ૪  | ભારતની અર્થવ્યવસ્થા   |
| ૫  | ભારતનું બંધારણ                                  | ૬  | ગુજરાતની ભૌગોલિક બાબતો તથા કુદરતી સંપત્તિ                     |
| ૭  | ગુજરાતની ખેતી અને ઉદ્યોગો                       | ૮  | ગુજરાતનો સાંસ્કૃતિક વારસો, સાહિત્ય , કલા, ધર્મ                |
| ૯  | ગુજરાતી વ્યાકરણ                                 | ૧૦ | અંગ્રેજી વ્યાકરણ  |
| ૧૧ | સામાન્ય વિજ્ઞાન                                 | ૧૨ | ભારતનો ઇતિહાસ   |
| ૧૩ | ગણિતશાસ્ત્ર                                     | ૧૪ | સંખ્યાત્મક કસોટી  |
| ૧૫ | તાર્કિક કસોટી (Reasoning Test)                  | ૧૬ | સામાન્ય બૌદ્ધિક ક્ષમતા કસોટી<br>(General mental ability Test) |
| ૧૭ | ખેલજગત  |    |   |

ભાગ-૨

કુલ પ્રશ્નો : ૧૦૦

કુલ ગુણ : ૨૦૦

માધ્યમ : અંગ્રેજી

1. Importance and Contribution of agriculture in State and National level economy.
2. Characteristics of different Agro-climatic zones of the State and their cropping Systems.
3. Characteristics of monsoon in different parts of the State Effect of environment on crop production Alternative cropping Systems, in irregular monsoon.
4. Classification of Soil of Gujarat, their Physical, biological chemical properties Measures for improving and maintenance of their fertility and productivity. Soil conservation programme.
5. Organic Farming uses of organic manure and bio-fertilizer in crop production. Importance of organic elements to maintain physical properties of soil, different methods of adding organic elements.
6. Essential element for the plant growth, their function and role. Nutrient movement in plant, integrated nutrient management.
7. Benefit of crop rotation, intensive cropping, multiple cropping, inter and mix cropping, system. Improve package of practices of main crops in irrigated and non-irrigated conditions.
8. Improved variety of cereals, legumes, cotton, oilseeds, Vegetable and fruit crops and cash crops cultivated in the State.

9. Importance of tissue culture and genetics engineering in the crop improvement and crop productivity.
10. Seed production programme for the cereals, oil-seeds, legumes and cash crops in the Gujarat State. Seeds certification, foundation and certified Seed production, intellectual property rights.
11. Concept of minimum and zero tillage.
12. Value addition and preservation of Vegetable, flower and fruits.
13. Irrigation projects, its classification, Irrigation system and water requirement of main crops. Scope and role of drip and sprinkler Irrigation in the agriculture.
14. Crops diseases and pest, its control measures, integrated pest and diseases management, biological control. Precaution in use of pesticide residues of pesticides and tolerance limits. Quarantine laws and its implementation, Use of plant protection appliances and their maintenance.
15. Stored grain pests, their damage symptoms and control measures, precaution for storage of grains.
16. Important breeds of indigenous and exotic cow and buffaloes, sheep, goat and poultry. Role of artificial insemination in livestock improvement.
17. Project and policies of the State government for development of Agriculture and related field. Different project, Scheme plans for development of Agriculture sector.
18. Objectives, Organization structure and implementation of the project-ATMA, principles of Broad based Extension (BBE).
19. Use of information technology in the field of Agriculture extensions for Spreading Agriculture technology.
20. Advantage and limitations of training and visit system Mass Communication, group Contact, Symposium, Workshop, Seminar & Conference.
21. Agriculture research centres in the State and their role in seed improvement programme and improved Agriculture practices.
22. Pollution and its impact on environment.
23. Natural resources, their Conservations, social issues and the environment, environment protection act.
24. Principles of plant physiology, its importance in Agriculture photosynthesis and crop productivity, post harvest physiology, Nutrition, absorption, Translocations, Metabolism, respiration, growth and development in plant.
25. Deficiency symptoms in plant due to micro-nutrients. Cause and its remedy.
26. Principles of Agriculture economics and its utility in Agriculture, production function, laws of returns. Risk and Uncertainty in Agriculture., crop insurance, assessment of crop losses, crop insurance advantages and limitations in application, insurance and Credit Guarantee Corporation of India.
27. Type of hybridization, role of genetic engineering in the development of the new varieties Development and improvement through tissue culture.