

प्रश्नपत्र का विवरण :

सं. क्र.	विषय	अंक
1	सामान्य ज्ञान	100
2	सामान्य हिन्दी	
3	सामान्य अंग्रेजी	
4	सामान्य गणित	
5	सामान्य विज्ञान	
6	सामान्य अभिरूचि	
7	संबंधित विषय पर आधारित	100
	कुल अंक	200

Syllabus Of Agriculture For R.A.E.O.

1. General Agriculture

Agriculture and its importance in national economy.

2. Agronomy

Major Crops of MP, Agrotechniques of major field crops of MP.

Farming systems and sustainable Agriculture.

Introductory Agro Meteorology, Agro-climatic and Agro-ecological zones .

3. Soil Science

Soil and its composition and its role in crop production, physical, Chemical, and biological properties of soil. Essential plant nutrients, their function and dynamics. Integrated nutrient management, Problem soils and their management.

4. Soil and water conservation, Watershed management

5. Plant Physiology

Absorption, translocation and metabolism of nutrients, Photosynthesis and respiration, Growth and development, growth regulators.

6. Crop Improvement

Elements of genetics and plant breeding as applied to crop improvement.

7. Horticulture

Package of practices of important fruit vegetable Spices and economically important flowering plants, Nursery management and propagation methods of horticultural crops. Problems (unfruitfulness, alternate bearing, fruit drops etc.) and physiological disorders and their management. Post-harvest management and value addition of fruits and vegetables.

8. Plant Protection

Important insect pests and diseases affecting important crops and their management. Components of integrated pest and disease management. Spray equipments, their selection and maintenance. Rodent management. Safety precautionary measures during pesticide usage.

9. Agricultural Economics

Meaning, principles of economics as applied to agriculture, Farm planning and resource management for optimal production. Farming systems and their economic role. Marketing of agricultural produce and regulated markets in MP including initiatives like (e -chaupal) Price of agricultural produce and its role in agricultural production.

10. Agricultural Extension Education

Philosophy, objectives and principles of extension. Extension organizations at the state, district and block levels, their structure, functions and responsibilities. Methods of communication. Role of farmer's organizations in extensions services. Role and importance of trainings. Important rural development programmes in India.

Syllabus Of Agriculture For S.A.D.O.

1. Agriculture, its importance in national economy, agro-climatic and agro-ecological zone, geographic distribution of crop plants. Agriculture heritage, Sustainable agriculture.
2. Important crop of India and M.P. Package of practices for cultivation of cereal, Pulses, oilseeds, Sugar, Fiber and forage crops; Different cropping systems, Farming system, Crop rotations, multiple and relay cropping, intercropping, mixed cropping and sequence cropping. Integrated crop management, Geoinformatics, Nano technology and precision farming
3. Crop weather relationship, floods, Cold waves and frosts, Meteorological services to agriculture. Climate change and climate resilient agriculture, Remote sensing, contingent crop planning.
4. Soil as a medium for plant growth and its Composition, minerals and organic constituents of the soil and their role in crop production, Soil types of India and M.P. Chemical, Physical and microbiological properties of soils, Essential plant nutrients, their functions and deficiency symptoms, Occurrence and Cycling in soils, Straight, complex and mixed fertilizers and bio-fertilizers manufactures and marketed in India, Integrated nutrient management for plant. Management of problem soils such as saline, alkali and

acid soils. Soil and water management Irrigation methods, soil erosion, its causes and control measures, Rain Water conservation; Watershed development, Rainfed farming principles and practices.

5. Bio-chemistry/Physiology/Microbiology/Environmental Sciences:

Fundamentals of Plant biochemistry and biotechnology, fundamentals of crop physiology, agricultural microbiology, environmental studies and Disaster management ,Introduction to forestry.

6. Elements of genetics and plant breeding as applied to improvement of crops, development of plant hybrids and composites, important hybrid and composites varieties of crops.

7. Important fruits and vegetable crops of M.P. and India, their package of practices Crop rotation, intercropping and companion crop. Role of fruits and vegetables in human nutrition. Post harvest management and value addition of fruits and vegetables.

8. Integrated weed management(IWM), Serious weeds and their control.

Principles of plant protection measures integrated control of pests and diseases. Pests and diseases affecting major crops. Storage pests management, rodents managements.

9. Principles and objective of surveying. Contouring, Farm development, land capability classification, Farm machinery and equipments. Bullock drawn and power driven Farm implements, Mechanization and its relevance and scope in India. Seed bed preparation land shaping, seeding and intercultural tools or equipments, plant protection equipments, harvesting and threshing machines, post harvest machinery, Care and maintenance before and after use of farm implements and machinery. Protected cultivation and secondary agriculture.

10. Economics with reference to agriculture Farm planning and management for enhanced production, Factors of Crop production and production relationships, marketing of agricultural produce and regulated markets in M.P. Price of agricultural produce and its role in agricultural development. Impact of economic reforms on agriculture business. Principle and objectives of agricultural extension. Extension organization at the district and block levels, their structure, functions and responsibilities. Methods of Communication role of farm organizations in extension services. Women in agriculture, Women entrepreneur, Women empowerment; Opportunities for agriculture entrepreneurship and Rural enterprise.

(के.एस. यादव)
उप संचालक (स्था.)
किसान कल्याण तथा कृषि विकास
मध्यप्रदेश भोपाल