RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SYLLABUS FOR SCREENING TEST FOR THE POST OF
ASSISTANT AGRICULTURE OFFICER,
AGRICULTURE DEPARTMENT

प्रश्न पत्र — प्रथम

Part - I

GENERAL HINDI

1 दिये गये शब्दों की संधि एवं शब्दों का संधि—विच्छेद ।
2 उपसर्ग एवं प्रत्यय—इनके संयोग से शब्द — संरचना तथा शब्दों से उपसर्ग एवं प्रत्यय को पृथक् करना,
   इनकी पहचान ।
3 समस्त (सामासिक) पद, की रचना करना, समस्त (सामासिक) पद का विग्रह करना ।
4 शब्द युग्मों का अर्थ बदल ।
5 पर्यायवाची शब्द और विलोम शब्द ।
6 शब्द शूद्धि — दिये गये अशुद्ध शब्दों को शुद्ध लिखना ।
7 वाक्य शूद्धि — वर्तनी संबंधी अशुद्धियों को छोड़कर वाक्य संबंधी अन्य व्याकरणिक अशुद्धियों का शुद्धीकरण।
8 वाक्यांश के लिये एक उपप्रज्ञा शब्द ।
9 पारिभाषिक शब्दावली — प्रश्नात्मक से समन्वित अंग्रेजी शब्दों के समक्ष हिंदी शब्द ।
10 मुहावरे — वाक्यों में केवल सार्थक प्रयोग अपेक्षित है ।
11 लोकोक्ति — वाक्यों में केवल सार्थक प्रयोग अपेक्षित है ।

Part - II

राजस्थान का सामाजिक ज्ञान, इतिहास एवं संस्कृति

1 राजस्थान की भौगोलिक संरचना — भौगोलिक विभाजन, जलवायु, प्रमुख पर्वत, नदियाँ, मरुस्थल एवं फसलें।
2 राजस्थान का इतिहास — सम्पूर्ण — कालीबंगा एवं आहड़,
   प्रमुख व्यक्तिवंश — महाराणा वंश, महाराणा सांगा, महाराणा प्रताप, राजवंश, शाह महलदेव, महाराजा जसवंतसिंह, बीर दुर्गादास, जयपुर के महाराजा मानसिंह—प्रथम, सवाई जयसिंह, बीकानेर के महाराजा गंगासिंह
3 भारतीय स्वतंत्रता संग्राम में राजस्थान का योगदान एवं राजस्थान का एकीकरण ।
4 विभिन्न राजस्थानी बोलियों ।
5 कृषि, पशुपालन एवं व्यापारिक शब्दावली ।
6 लोक देवी—देवता — प्रमुख संत एवं सम्प्रदाय ।
7 प्रमुख लोक पर्व, त्योहार, मेले — पशुमेले ।
8 लोक कथा, लोक गीत एवं नृत्य, कहावतें, लोक नाट्य, लोक वाद्य एवं कठपुतली कला ।
Pattern of Question Papers:
1. Objective Type Paper.
2. Maximum Marks: 360
3. Number of Questions: 120
4. Duration of Paper: Two Hours.
5. All Questions carry equal marks.
6. There will be **Negative Marking**.
7. 60 questions each from Part - I & II.

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Objectives and methods of plant breeding, Mendel's laws of inheritance, heterosis mutations, gene concept, plant water relationship, seed testing, type of seeds, seed production, recommended varieties of important crops of Rajasthan.

Soil formation and profile development, basis ideas on soil survey and classification, soils of Rajasthan. Physical properties of soils, soil reaction, management of saline, alkaline and acid soils, fixation of phosphorus, potassium and ammonium in soils, essential plant nutrients and their functions, nutrient deficiency & toxicity symptoms, various tests to determine nutrient needs of plants, symbiotic and non-symbiotic nitrogen fixation, Organic manures and bio-fertilizers, chemical composition of FYM, night soil, oil cakes, bone meal, fish manure and common fertilizers.

Olericulture - Classification of vegetables, nursery, transplantation, seed testing and storage, cultivation practice of cauliflower, cabbage, tomato, chillies, brinjal, carrot, radish, onion, pea, okra, muskmelon, watermelon and sweet potato, ornamental gardening and indoor gardening- lay out care & maintenance, cultivation of Roses. Pomology- layout of orchards, propagation methods, cultivation of mango, citrus, banana, guava, pomegranate, grapes, papaya, ber, phalsa, aonla, datepalm, Principles of fruits and vegetable preservation, dehydration, bottling, canning.

Peculiarities of Indian agriculture, place of agriculture in national economy. Pattern of land utilization, size of holding, prices of agricultural commodities, agricultural marketing, marketing functions and institutions, marketing cost and price spread. Agricultural finance and credit, credit institutions, crop insurance, agricultural development and poverty alleviation programmes. Farm planning and budgeting.

Philosophy and principles of Extension Education Rural Social Institutions, Caste and Family, Rural Leadership, Teaching - learning Process, Audio-visual aids, teaching methods, programme planning and evaluation, Communication Process. Diffusion theory, history of Extension programmes in India. CD, IRDP, Panchayati Raj, HYVP, ATIC, IVLP, ATMA, NATP, NAIP, DRDA, NREGA, PMRY, KVK, JRY, SGSY, T&V System etc.
Place of animal husbandry in rural economy, Care and management of new born calf, breeding bull, a cow before & after parturition, heifers, raising calves from 0-6 months, Common infectious & contagious diseases of livestock their prevention & control, Computation of balanced ration, Important Indian & exotic breeds of cow, buffalo, sheep, goad & camel, Breeds of chicks, Housing of cattle and poultry, Forage production & its conservation.

Common Workshop tools, survey instruments, Bullock drawn implements, tools scope of farm mechanization in India, tools & implements for land leveling, measurement of irrigation water, water lifting devices.

Data collection, summarization and presentation, measures of central tendency, measures of dispersion, Karl Pearson's coefficient of correlation.

Major diseases (fungal, bacterial, nematode & viral) and insect pest of field, vegetable & fruit crops of Rajasthan and their control measures including biological methods & integrated pest management.

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