RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER
SYLLABUS FOR SCREENING TEST FOR THE POST OF
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 – संचरण तथा शब्दों से उपसर्ग एवं प्रत्यय को पृथक करना, इनकी पहचान।
3. समस्त (सामासिक) पद, की रचना करना, समस्त (सामासिक) पद का विग्रह करना।
4. शब्द गुणों का अर्थ भेद।
5. पर्यायवाची शब्द और विलोम शब्द।
6. शब्द शुद्धि – दिये गये अशुद्ध शब्दों को शुद्ध लिखना।
7. वाक्य शुद्धि – वर्तनी संबंधी अशुद्धियों को छोड़कर वाक्य संबंधी अन्य व्याकरणिक अशुद्धियों का शुद्धीकरण।
8. वाक्यांश के लिये एक उपयुक्त शब्द।
9. परिभाषात्मक शब्दावली – प्रशासन से सम्बन्धित ऑर्गनिज़ 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 सामान्य ज्ञान, इतिहास एवं संस्कृति

1. राजस्थान की भौगोलिक संरचना – भौगोलिक विभाजन, जलवायु, प्रमुख पर्वत, नदिया, मरुस्थल एवं फसलें।
2. राजस्थान का इतिहास – सम्प्रतिः – कालीबंगा एवं आह्व, प्रमुख व्यक्तियों – महाराजा कुंभा, महाराणा सांगा, महाराणा प्रताप, राय जोधा, राय मालदेव, महाराजा जसवंतसिंह, वीर दुर्गादास, जयपुर के महाराजा मानसिंह–प्रथम, सवाई जयसिंह, बौकानेर के महाराजा गंगासिंह।
3. भारतीय स्वतंत्रता संग्राम में राजस्थान का योगदान एवं राजस्थान का एकीकरण।
4. विभिन्न राजस्थानी बोलियाँ।
5. कृषि, पशुपालन एवं व्यावसायिक शब्दावली।
6. लोक देवी–देवता – प्रमुख संत एवं सम्राट।
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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PAPER-II


Dry land farming - role in economy, aridity and their characteristics, constraints in dry farming areas, moisture conservation practices in dryland farming. Role of agro-forestry in soil and water conservation, silviculture, compatibility of crops, problems of seed germination etc. Appraisal of economics of farm forestry. Agronomy of important crops - cereals, pulses, oilseeds, fibre crops, forage crops, sugarcane, sugarbeet, potato, seed spices, isabgol etc. Recommended varieties of important crops of Rajasthan.


Olericulture - classification of vegetables, nursery, transplanting, seed testing and storage, cultivation practice of cauliflower, cabbage, tomato, chillies, brinjal, carrot, radish, onion, pea, okra, muskmelon, watermelon and sweet potato. Different styles of gardening, indoor gardening. Lawn & hedge – layout, care and maintenance, annual flowers, cultivation of major cut flowers like rose, gladiolus, tuberose and chrysanthemum. Pomology - layout of orchards, propagation methods, cultivation of mango, citrus, banana, guava, pomegranate, grapes, papaya, ber, phalsa, aonla, datepalm, Post harvest losses and principles of fruits and vegetable preservation, dehydration, jam, jelly, canning.


Essential plant nutrients and their role, major and micronutrients. Methods of Plant Breeding for self, cross pollinated and vegetatively propagated crops, mutation breeding, use of polyploidy in crop improvement, concept of heterosis, type of hybrids, combining ability, DNA recombinant technology, transgenic crops and their scope, tissue culture techniques, seed testing, type of seeds, seed certification and seed standards for different crops.

Place of livestock in the national economy. Different livestock development programmes of Government of India. Important exotic and Indian breeds of cattle, buffalo, sheep, goat and swine. Reproductive behaviours like puberty, estrus, pregnancy and parturition. Measures and factor affecting fertility in livestock. Milk secretion, milking of animals and factors affecting milk yield and composition. Selection and breeding of livestock for higher milk and meat

Limnology- water science, physico chemical and biological properties of water, lake-ecosystem, water pollution and various types of water bodies. Fish morphology and anatomy, osmoregulation, respiration in fish. Different types of aquaculture systems and type of fisheries.

Peculiarities of Indian Agriculture, place of agriculture in Indian economy, five year plans, consumer behaviour, demand, supply, demand schedule and supply schedule, market equilibrium, elasticity. Principles of farm management. Agriculture marketing, marketing functions and institutions, WTO, contract farming, future market. Prices of agricultural commodities. Agricultural finance and credit, credit institutions, cooperative Banks, crop insurance. Agricultural development and poverty alleviation programmes. Linear programming, agricultural production functions- characteristics and optimizations.

Meaning and definition of extension education, philosophy of extension, process of extension education, basic concepts in extension (need, knowledge, attitude, skill, behavior, objectives, rural leadership and motivation). Need assessment, bench mark survey and PRA technique. Rural social institutions, caste, family and social groups. History and present programmes of extension in India specially Shriniketan, Marthandom, Gurgaon experiment, Nilokheri project, Etawah pilot project, CDP, Panchayati Raj, NES, IVLP, IRDP, T&V system, Lab to Land, ATIC, KVK, NATP, RKVY, ATMA, MNREGA, ICDS, NDS, HYVP, IAAP, SGSY, JRY and PMRY with reference to their year of start, objectives, activities, achievement and failure. Teaching- learning process, teaching methods, use of audio-visual aids in training & communication process. Programme planning & evaluation, impact assessment. Organizing trainings, front line demonstrations, field days, kisan mela, exhibition, compaign. writing reports, radio talks, news, writing of farm literature and scientific information.
Classification of data, measures of central tendency, measures of dispersion, Karl Pearson's measures of correlation coefficient, linear regression, test of significance, large sample test and small sample tests-'t', chi-square, F test. Theory of probability- addition and multiplication laws for two events. General principles of designs of experiment- CRD, RBD, LSD and factorial experiment. Concept of sampling- simple random sampling, stratified random sampling and systematic sampling.

Scope of farm mechanization in India. Common workshop tools, survey instruments, bullock drawn implements, implements for field preparation, land leveling and sowing. Measures of irrigation water, water lifting devices.


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