RAJASTHAN PUBLIC SERVICE COMMISSION, AJMER

SCHEME & SYLLABUS FOR THE POST OF ASSISTANT
CONSERVATOR FOREST & FOREST RANGE OFFICER GRADE I
1st COMPETITIVE EXAMINATION, 2018
FOREST DEPARTMENT

OPTIONAL SUBJECT - AGRICULTURE

Unit-I

Unit-II
Unit-III

Unit-IV
Classification of animal kingdom with special reference to wild life, economically important insects and mites upto family level. Morphology and anatomy of grasshopper. Study of ecosystems and wild life conservation. Insect dominance. Concept and principles of IPM, Components of IPM: Physical, mechanical, cultural, chemical (including novel insecticide molecules), biological, legal and other modern approaches. Identification, nature of damage, bionomics and management of insect-pests and mites of agricultural and forest importance with special reference to Rajasthan. Lac culture, sericulture and apiculture.

Unit-V
Unit-VI

Unit-VII

Unit-VIII
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). Rural social institutions, caste, family and social groups. Extension programmes in India. Teaching-learning process, teaching methods, use of audio-visual aids in training &
communication process. Organizing trainings, front line demonstrations, field days, kisan mela, exhibition, campaign. Writing reports, radio talks, news, writing of farm literature and scientific information.

Unit-IX
Importance of silviculture, agroforestry and its branches and importance. Forest regeneration, tending operations, Forest mensuration in brief. Cultivation and management of important fodder and timber tree species of Rajasthan.

Unit-X
Agricultural Engineering: Farm power and machinery, bullock and tractor drawn implements, Tools, Measurements of irrigation water, Water lifting devices. Agriculture Statistics. Measurement of Central Tendency, Standard error and deviation, Correlation, Regression, Test of Significance, F & Chi Square test, Experimental designs-CRD, RBD, SPD.

Unit-XI

Note: - Pattern of Question Paper
1. Objective type paper
2. Maximum Marks : 200
3. Number of Questions : 120
4. Duration of Paper : Three Hours
5. All questions carry equal marks.
6. There will be Negative Marking.