



NATIONAL BANK FOR AGRICULTURE AND RURAL DEVELOPMENT
SYLLABUS FOR THE WRITTEN EXAMINATION FOR THE POST OF
ASSISTANT MANAGERS IN GRADE 'A'
(THE SYLLABUS IS ILLUSTRATIVE AND NOT EXHAUSTIVE)

LAND DEVELOPMENT - SOIL SCIENCE

The syllabus is illustrative and not exhaustive. The syllabus should not be considered as the only source of information while preparing for the examination. Keeping in view the nature of examination, all matters falling within the realm of the subject concerned will have to be studied by the candidate as questions can be asked on all relevant matters under the subject. Candidates appearing for the examination should also prepare themselves for answering questions that may be asked on the current/latest developments/Acts taking place under the subject(s) although those topics may not have been specifically included in the syllabus.

Land use and land capability classification, irrigability criteria; interpretation of soil and land resource data, characteristics of Agro-climatic zones of India. Soil and water conservation theory and practice for different agro-climatic conditions. Water management in crop production and irrigation agronomy – water resources in India, soil-plant-water relations; principles and practices of irrigation and water requirements criteria. Drainage of agricultural lands. Soil fertility management; fertilizers and manures including bio-fertilizers. Problematic soils and reclamation measures. Crop husbandry in irrigated and rainfed systems with particular reference to cereals, pulses, oil seeds, fibre crops, sugar crops and fodders and pastures. Organic farming concepts. Dryland farming / rainfed agriculture / watershed development – concepts and field techniques. Biotechnologies in field crops. Waste water treatment and recycling of bio-wastes. Integrated farming systems in irrigated and rainfed conditions. Seed production and technology. Principles of agronomic trials / experimental designs and data interpretations.