

SYLLABUS FOR COMMON PRELIMINARY SCREENING TEST, 2014 FOR RECRUITMENT TO THE POSTS OF ASSISTANT DIRECTOR OF AGRICULTURE IN W.B. AGRICULTURAL SERVICE (ADMINISTRATIVE) AND ASSISTANT BOTANIST, ASSISTANT AGRICULTURAL CHEMIST/ANALYTICAL CHEMIST/JR. SOIL SCIENTIST, AND ASSISTANT AGRONOMIST IN W.B.AGRICULTURAL SERVICE (RESEARCH) UNDER THE AGRICULTURE DEPTT., GOVT. OF WEST BENGAL.

Agriculture

Full marks: 100

Time: 2 hours

I. **General :**

1. Rural Sociology and Extension
2. Agril Economics; Farm Management and Marketing; grading, packaging market Information, world situation.
3. Rural Resource Survey & development planning.
4. Methods of Agril Extension – training, demonstration, publications.
5. Commercial Farm Enterprise Management : finance, Human resource, time & business.
6. Design of experiments, sampling, statistical analysis.
7. Computer application : information, networking and website browsing.
8. Agro climatic Zones of West Bengal : resources and prospects.
9. Agro meteorology & remote sensing.

II. **Crop Production :**

1. Field crops, cereals, pulses, oilseeds, fibres, sugar crops – Rice, Wheat, Maize, Chick Pea, Pigeon Pea, Mustard, Sunflower, Groundnut, Jute, Cotton, Sugarcane, Sugarbeet.
2. Vegetable crops – Summer, Winter.
3. Fruits & plantation – Mango, Litchi, Banana, Guava, Pineapple, Betelvine etc.
4. Flower & Ornamentals – Rose, Tuberose, Dahlia, Gladiolus, Orchids, Chrysanthemum.
5. Medicine, Spice, Aromatics – Black pepper, Coriander, Cumin, Fennel, Fenugreek
6. Soils and Soil Health : Management & nutrition, Soil & Water conservation.
7. Manures, fertilizers; applications, composting, biofertilizer.
8. Irrigation & Drainage – Methods; water-harvest.
9. Land shaping, development & preparation.
10. Sericulture, Beekeeping & Mushrooms.

III. **Crop Protection :**

1. Entomology & Pest Control.
2. Plant Pathology & Disease control.
3. Pests of important crops & their control.
4. Diseases of important crops & their control.
5. Principles & Practices of plant protection.
6. Regulations, Resistant varieties, Transgenics.
7. Pesticides, Fungicides, Weedicides.
8. Environment and its pollution – Toxicity, phytotoxicity, antidotes.
9. Integrated pest, disease & weed management.