



TAMIL NADU GOVERNMENT GAZETTE

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Part II—Section 2

**Notifications or Orders of interest to a section of the public
issued by Secretariat Departments.**

NOTIFICATIONS BY GOVERNMENT

SCHOOL EDUCATION DEPARTMENT

SYLLABUS FOR COMPETITIVE EXAMINATION FOR RECRUITMENT OF VOCATIONAL INSTRUCTORS
FOR AGRICULTURE

[G.O.2D No. 71, School Education 2(2), 13th November 2014, Aippasi 27, Jaya, Thiruvalluvar Aandu-2045.]

No. II(2)/SE/687(d)/2014.

I PRESCRIBED QUALIFICATION:

A bachelors degree in Agriculture (or) Horticulture.

II QUESTION PATTERN:

	Max. Marks-150 (150X1)
No of questions	150
(i) Agriculture and Horticulture (Degree Standard)	130
(ii) General Knowledge	10
(iii) Educational Psychology	10
	150

SYLLABUS

B.Sc., (Agriculture) and B.Sc., (Horticulture) Degree standard

<i>Topics</i>	<i>Sub-division</i>	<i>Marks</i>
1. Weather and climate	Agro climatic zones-weather forecasting instruments Atmosphere – monsoons – Temperature – clouds – light – rainfall	05
2. Package of practices	Cereals – pulses – Oil seeds – Fibre crops – Sugar crops - Tuber crops – Vegetable crops – Fruit crops – Spice and Condiments – plantation crops – Medicinal and Flower crops	20
3. Soils and fertilizers	Soil structure – texture – nutrients – problem soils and Managements – physical and chemical properties – Soil survey-soil fertility and productivity – organic manure – Green manure – Bio fertilizers and Integrated Nutrient Management.	20
4. Entomology & Pathology (Crop protection)	Importance of pest and disease management – Surveillance and forecasting – symptoms of damages and control measures– Integrated pest and disease management – pesticides and their usage – plant protection equipments and plant quarantine - storage pest and disease – management – Biological control of pest and disease	20
5. Plant Breeding	Principles – Methods-Modern tools in crop improvement – Hybrid production – Latest varieties of major crops in Tamil Nadu –application of biotechnology in agriculture and Horticulture – Tissue culture and its significance – transgenic plants.	05
6. Seed Technology	Seeds – Important of quality seeds – testing technique – Nucleus – breeder – foundation – certified and label seeds – Certification techniques and process in Tamil Nadu – seed Production and testing – used Village concept.	05
7. Water Management	Water resources – development and management – Irrigation Management of different crops- water use efficiency – quality of irrigation water – its effect on soil and crops – management of poor quality water.	05
8. Weed Management	Distribution – classification – Importance – symptoms and Damages – Control measures – Integrated management – herbicide – classification – usage – Spray equipments etc.,	10
9. Farming System	Classification – Types of cropping – mixed Crops – Intercropping and different types – patterns in Tamil Nadu – System Management – crop planning – rotation – farming system for Various agro-climatic Zones of Tamil Nadu.	05
10. Farm Implements	Primary tillage – Secondary tillage – tertiary tillage – Cultivators – Intercultural operation implements – Wetlands – Garden lands – Implements for special operations – sowing and planting implements.	05
11. Dry land Farming	Dry farming – rainfed agriculture – conservation of soil and water – watershed and wasteland development.	05
12. Agricultural Economics	Marketing – Price Policy – Market structure – cost concepts – Agricultural Credit system in India Farm Planning and budgeting – Role of nationalized Banks and regional rural Banks – Lead Banks Scheme – Scale of finance – Marketing Institutions – Management of resources.	08

<i>Topics</i>	<i>Sub-division</i>	<i>Marks.</i>
13. Agricultural Extension	Development Programmes – recent approaches in rural Development – TANWA – Extension education – Principles of Extension – various teaching methods – Extension teaching aids.	07
14. Commercial Agriculture	Apiculture – Sericulture – Mushroom cultivation – Vermicompost – Organic Manure – preservation Techniques – Cut flower – Landscaping – Ornamental fish culture – Sylviculture.	05
15. Latest Technologies and Agriculture and Horticulture	Systematic Rice Intensification (SRI) – Precision farming – Sustainable sugarcane initiative (SSI) – Pit planting in Banana – High density planting – cashew and Banana – post harvest Techniques in fruits and flowers.	05

D. SABITHA,
Principal Secretary to Government.