

SWAMI VIVEKANAND UNIVERSITY, SIRONJA, SAGAR (M.P.)



SYLLABUS

For Certificate in Nursery Development and Nursery Management

Department of Agriculture Science

Duration of Course : One Year

Examination Mode : YEARLY

Examination System: Non Grading

Swami Vivekanand University, Sironja Sagar (M.P)
2016-2017



Faculty : Agriculture Science
Scheme of Course : Nursery Management

Department : Agriculture Science
Course Code : CNM-101 Year – yearly

Course Code	Title of the Paper	Periods Per week				Distribution of Marks								Grand Total (i= d+h)
		L	T	P	C	Theory		MST (c)	Total (d= a+c)	Practical		TW (g)	Total (h= e+g)	
						Max (a)	Min (b)			Max (e)	Min (f)			
CNM-101	Nursery Management					100	33		100	50	17			150
	Total					100	33		100	50	17			150



Nursery Management

Course code	Title of the Paper	Periods Per week				Distribution of Marks								Grand Total (i= d+h)
		L	T	P	C	Theory		MST (c)	Total (d = a+c)	Practical		TW (g)	Total (h= e+g)	
						Max (a)	Min (b)			Max (e)	Min (f)			
CNM-101	Nursery Management					100	33		100	50	17			150

UNIT – I

Marks : 20

Introduction, Importance, Development. **Establishment of Nursery** -: Selection of site- Location, Soil and climate for Nursery, Topography, Wind, Elevation of Nursery place, Irrigation and Drainage facilities, Transportation and Marketing facilities, Labour facilities, Situation of Nursery , Free from all types of insects and diseases, Soil and preparation of Nursery.

UNIT II

Marks : 20

Lay out of Nursery:- Bed Department, Construction Department, Water management Department, Residential Department, Mother plants Department, Roads and Paths Department. **Types of Nursery** -: Multipurpose or mixed Nurseries, Monopurpose or General Nursery, Specialized Nursery, Attached or auxiliary or subsidiary nursery.

UNIT III-

Marks :20

Location of Nursery -: Scientific layout of Nursery, Collection of mother plant and their management, Source of available root stocks and their proper utilization , Testing and processing of seeds viability or seeds survival, Use of standard methods of plant propagation , Proper management of seed or storage , Arrangement of good selling, Proper testing facilities , Arrangement of Training and Demonstration, Arrangement of nursery exhibitions .



UNIT IV -

Marks: 20

Present location of Nursery in India, Suggestions for maximization of Nursery. **Nursery Management** -: Plant propagation, Sexual propagation (seed), Asexual propagation – Introduction ,Division- suckers, runners, crown, rhizome, corm, tubers, bulb, bulbil, stolen, offset. Rootage- cutting, layering. Graftage- approach grafting, whip, tongue, cleft, saddle, side, veneer, bark, buttressing, epicotyle, bridge, double, Top working, Double working, Frame working.

UNIT V -

Marks: 20

Plant growth regulators -: Introduction, Types- Auxins, Gibberellins, Cytokinins, Abscisic acid, Ethylene. Methods.**Green house** – Definition, Origin, Preparation, Structure, Types, Advantage.**Polly House** – Introduction, Structure, Size, Method, Advantage.

Practical -:

1. Study of Nursery tools and implements and their uses
2. Classification of Nursery.
3. Method of Division.
4. Method of Graftage.

Reference -:

1. Plant Propagation and Nursery Husbandry - G.S. Saini (Hindi & English)
2. Udhyan Vigyan - Dr. S.S. Shrivastav (Hindi)
3. Plant Propagation & Nursery Management - R.R. Sharma & Manish Shrivastav
4. Plant Propagation and Nursery Husbandry - Dr. J.V.S. Yadav