

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT.

T.Y. B.Sc.
HORTICULTURE
(Courses of Applied Nature (CAN))
Effective from June, 1991

Total Marks :- External Exa. 80

Internal Exa. 20

Four Periods per week

1. Definition aims and branches of horticulture.
Importance of horticulture.
2. Classification of horticulture crops.
Selection of Place for the cultivation of horticulture crops.
3. Organic manures, Fertilizer.
4. Pruning and Framing.
5. Principles of Land – scaping and garden designs. Components of garden –
Laws, Path, Conservatory, Gates, Hedge, Fountains Statues, Arches,
Pergolas.
6. Propagation – Different methods of Propagation. A detailed study of :
(i) Grafting (ii) Layering (iii) Budding.
7. Uses of growth hormones in horticulture.
Vegetative propagation (Root formation),
Flowering, Fruit setting, Parthenocarpic fruit development,
Prevention of fruit – drop, Defloration , Ripening of Fruits, Weedkilling.
8. Principles of fruit and vegetable preservation, causes of spoilage of fresh and
processed fruits & vegetables.
Types of preservation – Short term,
Long term.
Preparation of Jam, Jelly, Sauce.
Bottling and Canning, dehydration , drying and fermented products.
9. Cultivation of the following fruit crops with reference their origin, distribution,
Climate, Soil, Propagation, Method of cultivation, harvesting, marketing and
atleast three varieties of each crop.
Mango, Banana, Sapota, Coconut, Guava, Lemon, Papaya, Bor
(iziphus).
10. Cultivation of the following vegetable crops in relation to their origin,
distribution, climate, soil, propagation, method of cultivation, harvesting and at
least three varieties of each crop.
Root crops : Sweet – potato, Carrot.
Tuber Crops : Potato.
Fruit vegetables; Tamato, Brinjal, Lady's finger, Dolichos (Hyacinth Bean),
Cucumber.
Cole vegetables : Cabbage, Cauliflower
Leafy vegetables : Methi (Fenugreek), Spinach.

11. Cultivation of the following ornamental plants.
Rose, Jasmine, Bougainvillea, Chrysanthemum, Mary - Gold.

Books Recommended :-

- (1) Gardening In India By T.K. Bose & Mukherjee.
Oxford & IBH Publishing co, Bombay. 1984.
- (2) Vegetable growing in India by S.L. Katyal.
Oxford & IBH Publishing co, Bombay. 1980.
- (3) Vegetable production in India by D.V.S. Chauhan.
Ramprasad & Sons Agra. - 1979.
- (4) Fruit growing in India by W.B. Hyes.
Kitabistan, Allahabad - 1970
- (5) Fundamentals of Horticulture By Edmond – Senn – Andrews- Halfacre.
TMH Publication , New Delhi – 1979.
- (6) Fruit physiology and Production. by Amar Singh Kalyani – Publication New
Delhi – 1980
- (7) A Manual on Fruit & Vegetable Preservation By B.S. Chaundawat &
R.C.Sharma.
- (8) Ornamental Gardening an I.C.A.R. Publication by G.S. Randhva.
- (9) Vegetables by B. Chaudhary . National Book trust India. New Delhi (1969)
- (10) Fruits by Ranjitsingh.
- (11) Fruits Culture in India by W.B. Hayes.
- (12) ફળઝાડ વિજ્ઞાન, લેખક અવરાણી – અન્ડા પ્રકાશન, અમદાવાદ આવૃત્તિ – ૧૯૮૪
- (13) ફલોધન વિદ્યા ભાગ –૧ મજમુદાર એ.એમ., યુનિ. ગ્રંથ નિમાર્ણ બોર્ડ, અમદાવાદ – ૧૯૭૨ ની આવૃત્તિ.
- (14) ફલોધન વિદ્યા ભાગ –૨ અમીન એચ.ડી., લેખક – શાહ પી.એ., ગ્રંથ નિમાર્ણ બોર્ડ અમદાવાદ – ૧૯૭૨ ની
આવૃત્તિ.
- (15) ફળવિદ્યા – લેખક – બાબુભાઈ અવરાણી અને નાગોરી , યુનિ. ગ્રંથ નિમાર્ણ બોર્ડ, ૧૯૭૨ ની આવૃત્તિ.
- (16) પુષ્પ વિદ્યા – લેખક – નાગોરી – યુનિ. ગ્રંથ નિમાર્ણ બોર્ડ, અમદાવાદ – ૧૯૭૧
- (17) શાકભાજી વિજ્ઞાન , લેખક – અવરાણી – અન્ડા પ્રકાશન અમદાવાદ – ૧૯૮૫
- (18) બાગના ફુલો – લેખક – બિશ્વજાત ચોધરી અનુવાદક સી. એચ. પાઠક, નેશનલ બુક ટ્રસ્ટ ઈન્ડિયા, ન્યુ દિલ્હી
– ૧૯૬૯.