

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: III (New)	Term	: First	Academic Year	: 2023-24
Course No.	: H/VS 232	Title	: Tropical and Subtropical Vegetables		
Credits	: 3 (2+1)				
Day & Date	: Wednesday, 6.12.2023	Time	: 9:00 to 12:00 hrs.	Total Marks	: 80

- Note :**
1. Solve ANY EIGHT questions from SECTION 'A'.
 2. All questions from SECTION 'B' are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 Discuss in brief the importance and scope of tropical and subtropical vegetables in India.
- Q.2 Write in detail the cultivation of brinjal on the following points:
- a) Soil and Climate
 - b) Seed rate and Raising of seedlings
 - c) Varieties
 - d) Harvesting and Yield
- Q.3 Describe in brief the cultivation of cucumber on the following points:
- a) Climate and Soil
 - b) Varieties
 - c) Manures and Fertilizers
 - d) Harvesting and Yield
- Q.4 Answer in short / Write short notes on (Any Two):
- a) Enlist types of vegetable farming and discuss market gardening.
 - b) Discuss the classification of vegetable crops based on method of cultivation.
 - c) Training systems in cucurbits
- Q.5 Describe the cultivation of french bean on the following points:
- a) Climate and Soil
 - b) Planting
 - c) Important varieties
 - d) Harvesting and Yield
- Q.6 Describe the cultivation of cluster bean on the following aspects:
- a) Uses
 - b) Climate and Soil
 - c) Planting
 - d) Harvesting and Yield
- Q.7 Write in detail the cultivation of watermelon on the following points:
- a) Soil and Climate
 - b) Seed rate and Planting
 - c) Varieties
 - d) Maturity indices and Yield
- Q.8 Write short notes on (Any Two):
- a) Export potential of vegetable crops
 - b) Cultivation of little gourd
 - c) Determinate and indeterminate types of tomato varieties with examples

(P.T.O.)

Q.9 Write in detail the cultivation of moringa on the following points:

- a) Soil and Climate
- b) Varieties
- c) Propagation and Planting method
- d) Harvesting and Yield

Q.10 Complete the following table with correct information:

S.N.	Crop	Botanical name and Family	Propagation and Seed rate	Planting distance	Yield (t/ha)
1)	Amaranth				
2)	Okra				

SECTION 'B'

Q.11 Match the pairs:

'A'

'B'

- 1) Dioecious vegetable
 - 2) Pusa Hybrid 4
 - 3) Propagation by seed and stem cutting
 - 4) Hermaphrodite flowers
 - 5) *Hibiscus sabdariffa*
 - 6) Phule Komal
 - 7) Leaves and flowers are consumed
 - 8) B deficiency
- a) Satputia cultivar
 - b) Roselle
 - c) Fruit cracking in tomato
 - d) Sponge gourd
 - e) Bitter gourd gynoecious hybrid
 - f) Pointed gourd
 - g) Agathi
 - h) Basella

Q.12 State True or False:

- 1) The pungency in chilli is due to the presence of capsanthin.
- 2) Curry leaf belongs to family Moringaceae.
- 3) Full slip stage is the maturity index of pumpkin.
- 4) Bushy growth is a morphological character of summer squash.
- 5) Cultivation of cucurbitaceous vegetables in river basins in North India, is known as *Diara* system of planting vegetables.
- 6) Sorrel, an underexploited leafy vegetable belongs to family Euphorbiaceae.
- 7) Anthesis of bottle gourd takes place during evening hours.
- 8) 'Konkan Kasturi' is the variety of coriander released by Dr. B.S. Konkan Krishi Vidyapeeth, Dapoli.

