

DR.PANJABRAO DESHMUKH VIDHYAPEETH, AKOLA

SEMESTER END THEORY EXAMINATION

B.Sc. Hons. (Horticulture)

Semester	: II (New)	Term	: I	Academic Year:	2020-21
Course No.	: H/HORT- 121	Title	: Growth and Development of Horticultural Crops		
Credits	: 2(1+1)				
Day & Date	: Sunday 28/11/2021	Time	:10.00-11.00	Total Marks:	40

- Note: 1. Solve **ANY FOUR** questions from **SECTION “A”**
2. Solve **ANY SIX** questions from **SECTION “B”**
3. All questions from **SECTION “C”**, are compulsory
4. Send the PDF file of answer sheet to the email id of respective course teacher
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SECTION “A”

(Write the answer in 4-5 sentences only. Each quotation carries 4 marks)

- Q.1 Define growth and enlist the phases of growth in horticultural crops .
Q.2 Explain the physiological role of Cytokinins in plant growth and development
Q.3 Describe in brief about Long day plants
Q.4 Short notes. (Any one)
1.Practical utility of vernalization 2. Senescence
Q.5 Describe in brief plant growth inhibitors.

SECTION “B”

(Write the answer in one sentence only. Each quotation carries 2 marks)

- Q.6 Define following terms (Any six)
1. Climacteric fruits 2.Training 3.Vernalization 4.Photoperiodism 5.Pruning 6.Plant Growth regulator 7.Development 8.Ripening

SECTION “C”

- Q.7 Multiple choice questions (MCQ)

1.Auxin is synthesized mainly in-----

- a) Roots
b) Meristematic regions of the plant
c) Shoots
d) None of the above

2.Richest source of gibberellin in higher plant is -----

- a)Root
b) Leaf
c) Stem
d) Immature seeds

3.The credit for discovery of kinetin goes to -----

- a) Miller *et al.*
b) Letharnet *al.*
c)Zachauet *al*
d)None of the above

4.Fruit ripening hormone is-----

- a) Kinetin
b)Auxin
c)Ethylene
d)All of above

5. Naturally occurring growth inhibitor in plants-----

- a) IAA
- b) GA₃
- c) ABA
- d) All of above

6. -----example of climatic fruit.

- a) Mango
- b) Grape
- c) Strawberry
- d) None of this

7. Full form of MH-----

- a) Malic hydroside
- b) Mono hydrogen
- c) Malic hydrazide
- d) None of these

8. A standard growth curve of plant is-----

- a) Bell-shaped
- b) Sigmoidal
- c) Pyramidal
- d) Straight

9. Synthetic cytokinins is-----

- a) Zeatin
- b) Dihydrozeatin
- c) Kinetin
- d) None of these

10. Berry elongation and thinning in grapes is done with-----

- a) 2,4-D
- b) Ethephon
- c) NAA
- d) GA₃

11. Sink activity is increased by -----

- a) Thinning
- b) Girdling
- c) Both A and B
- d) Proper irrigation

12. Source activity increased by-----

- a) Proper irrigation
- b) Thining
- c) Bending
- d) Girdling