MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

Semester	: **II (New)**	Term	: **Second**	Academic Year	: **2021-22**
Course No.	: **H/HORT 121**	Title	: **Growth and Development of Horticultural Crops**		
Credits	: **2 (1+1)**				
Day & Date	: **Tuesday, 20.09.2022**	Time	: 9:00 to 11:00 hrs	**Total Marks**	: **40**

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 Explain in detail the factors causing dormancy of seeds.

Q.2 Narrate about the physiological effect of auxins.

Q.3 How does the process of germination start? Describe the physiological changes during seed germination.

Q.4 Comment on source and sink relationship. How do you increase source and sink activity?

Q.5 Explain different types of senescence patterns in whole plant.

Q.6 Explain the physiological role of ethylene in fruit ripening and breaking seed dormancy of seed and bud.

Q.7 Describe various uses of plant growth regulators in horticultural crops.

Q.8 Write about the role of Gibberellins.

Q.9 Write in short about the importance of photoperiodism. Give some phytochrome-mediated photoresponses in plants.

Q.10 Explain the physiological role of pruning. Write specific objectives of pruning.

SECTION 'B'

Q.11 Fill in the blanks:

1) The response of plants to the photoperiod expressed in the form of flowering is called _____.

2) _____ is the most abundant and widely distributed natural cytokinin in higher plants and in some bacteria.

3) _____ is often a useful measurement in bio-productivity studies.

4) The precursor for the synthesis of auxin in plants is_____.

Q.12 Define the following terms:

1) Programmed Cell Death (PCD)

2) Plant Hormone

3) Leaf Epinasty

4) Growth Analysis

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