## MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

## **B.Sc.(Hons.)** Horticulture

Academic Year : 2022-23 Second Term : II (New) Semester Growth and Development of Horticultural : H/HORT 121 Title Course No. Crops Credits : 2 (1+1) Total Marks: 40 9:00 to 11:00 hrs. Time: : Saturday, 05.08.2023 Day & Date Solve ANY EIGHT questions from SECTION 'A'. Note: 1. All questions from SECTION 'B' are compulsory. All questions carry equal marks. Draw neat diagram wherever necessary. 4. SECTION 'A' Define growth. Write in brief the phases of growth in horticultural crops. Q.1 Write in short about growth curve. Give in brief the phases of growth curve in Q.2 horticultural crops with well labeled diagram. Write about the components of growth analysis of horticultural crops. Q.3 Comment on photoperiodism. Write in brief about day length requirement for flowering Q.4 in horticultural crops with examples. Comment on the role of bioregulators in growth and development of horticultural crops. Q.5 Write in brief about physiology of ripening of climacteric and non-climacteric fruits. Q.6 Describe in brief the biosynthesis of auxins and mention its role in horticultural crops. Q.7 Differentiate between C<sub>3</sub> and C<sub>4</sub> plants. Q.8 Write in short about factors affecting induction of flowering in fruit crops. Q.9 Write in brief about training and pruning. Give the objectives of pruning. Q.10 SECTION 'B' Define the following terms: Q.11 2) Sink 1) Plant growth regulator 4) Translocation of assimilates 3) Development Q.12 Fill in the blanks: 1) Spinach is a \_\_\_\_\_ day plant. 2) \_\_\_\_\_ is naturally occurring auxin in plants. 3) \_\_\_\_\_ can induce flowering in long day plants even under non-inductive short 4) Vernalized plant can be devernalized by \_\_\_\_\_. **\*\*\***