MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

B.Sc. (Hons.) Agriculture

| | | (110hs.) Agriculture |
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| | mester : III (New) | T |
| | edits : 2 (1+1) y & Date : Wednesday, 13.11.2019 | Academic Year : 2019-20 Title : Fundamentals of Plant Breeding |
| | | |
| | | Time • 00.00 · · · · · |
| | 2. All questions from SEC | restions from SECTION "A". |
| | 3. All questions carry on | are compulsory. |
| | 4. Draw neat diagrams wh | nerever necessary. |
| Q.1 | Define plant breeding F | SECTION "A" |
| Q.2 | Lapidii objectives of plant broading | |
| 2.3 | Explain various mechanisms that promotes and the | |
| | but but the and mass selection method | |
| Q.4 | Write short notes. (Any Two) | |
| | a) Clonal selectionc) Polyploidy | b) Recurrent selection |
| Q.5 | | |
| Q.6 | write its advantages and disadvantages. | |
| 4.0 | programme. | different steps involved in handling hybridization |
| Q.7 | What is incompatibility? Write its advantages and disadvantages. | |
| Q.8 | Define mutation. Explain the characteristics and significance of mutations in crop improvement. | |
| Q.9 | Define heterosis. Describe briefly various methods of estimating heterosis. | |
| Q.10 | | |
| | | SECTION "B" |
| Q.11 | Fill in the blanks. | |
| | 1) The term self incompatibility was coined by | |
| | 2) The purpose of emasculation is | |
| | 3) Single seed descent method was first suggested by | |
| | | using colchicines is termed as |
| Q.12 | Define the following terms. | |
| | 1) Recalcitrant seed | 2) Parthenogenesis |
| | 3) Inbreeding | 4) Synthetic variety |
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