HARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END EXAMINATION

| nester : III (New) Term : I Academic Yearse No. : BOT 233 Title : Principles of Plant Breed edits : 3(2+1) y & Date : Friday, 10.10.2014 Time : 9.00 to 12.00 Tots 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 diagrams wherever necessary. SECTION "A" 9.1 Define plant Breeding. Explain objectives of plant breeding. | ling al Marks : 80 |
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| 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 diagrams wherever necessary. SECTION "A" | |
| 2. All questions from SECTION "B" are compulsory. 3. All questions carry equal marks. 4. Draw neat diagrams wherever necessary. SECTION "A" | |
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| Define plant Breeding. Explain objectives of plant breeding. | |
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| Q.2 Define male sterility. Enlist different types of male sterility are cytoplasmic genetic male sterility. | nd describe |
| Q.3 a) Enlist breeding methods used in self-pollinated crops.b) Describe mode of pollination in cross pollinated crops. | |
| Q.4 Define polyploidy. Give the classification of polyploidy. Describe polyploidy in Agriculture. | the role of |
| Q.5 Distinguish between Mass selection and Pure line selection. | |
| Q.6 Define recurrent selection. Give its types and explain simple recurrent | selection. |
| Q.7 What is hybridization? Describe different steps involved in hybridizat | |
| Q.8 Write short notes on (Any Two). | |
| | Microgametogenesis |
| Q.9 Define mutation. Explain types of mutagens with example and give mutation breeding in crop improvement. | application of |
| Q.10 Define heterosis. Enlist theories and explain dominance hypothesis of | of heterosis. |
| SECTION "B" | |
| Q.11 Define the following terms. | |
| 1) Plant introduction 2) Parthenogenesis 3) Acclimatization | 4) Back cross |
| 5) Monoecy 6) Self-incompatibility 7) Hardy-Weinberg | law 8) Random drif |
| Q.12 a) Give contribution of the following Scientists. | |
| 1) W.L.Johannsen 2) Thomas Fairchild | |
| 3) Goulden C.H 4) K. Ramaiah | |
| b) Fill in the blanks. | |
| 1) NBPGR stands for | in 1025 in |
| 2) Gametophytic incompatibility was first described by <i>Nicotiana sanderae</i> . | |
| method is used to transfer resistance in high yi | elding varieties. |
| 4) Polycross test is the most commonly used test in | crops. |

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