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MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Hort.)

Semester : V (Old)	Term : I	Academic Year : 2018-19
Course No. : H/VS 353	Title : Breeding of Vegetable Crops	
Credits : 3(2+1)	Time : 14.00 to 17.00	Total Marks : 80
Day & Date : Thursday, 15.11.2018		

- 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.

Sri Sridevi College of Horticulture
AMRAVATI
Library Department

SECTION "A"

- Q.1 Write in short about importance and scope for vegetable breeding in India. What is centre of origin? Describe its types.
- Q.2 Define gene pool. Describe in short its methods of conservation.
- Q.3 Describe in short about modes of reproduction. Explain mechanisms that facilitate cross pollination in vegetable crops with suitable examples.
- Q.4 Enlist various methods of breeding followed in vegetable crops and discuss in short about selection method.
- Q.5 Define mutation breeding. What are the different types of mutagens? Give merits and demerits of mutation breeding.
- Q.6 Write down the varietal development in okra through crop improvement.
- Q.7 Give complete procedure of plant introduction with its merits and demerits.
- Q.8 Define male sterility. Enlist its different types and explain any one of them.
- Q.9 What are the breeding objectives in chilli? Enlist the chill varieties released through various breeding methods.
- Q.10 What do you mean by hybridization? Describe in short steps involved in hybridization.

SECTION "B"

- Q.11 Fill in the blanks.

- 1) The head quarter of IIVR is located at _____.
- 2) The tendency of plant bearing only female flowers is called _____.
- 3) Maturation of stigma ahead of anthers is termed as _____.
- 4) _____ breeding refers to induced chromosome manipulation.
- 5) Removal of immature anthers from bisexual flowers is called _____.
- 6) Cleistogamy favours complete _____ pollination.
- 7) The concept of centre of origin was given by the scientist _____.
- 8) Full form of AVRDC is _____.

(P.T.O.)

Q.12 Match the following pairs.

'A'

- 1) Hybrid variety of bottle gourd
- 2) Self pollinated vegetable
- 3) Salt tolerant vegetable
- 4) Dioecious vegetable
- 5) Monoecious vegetable
- 6) YVMV resistant variety of okra
- 7) Asexually propagated vegetable crop
- 8) Cross pollinated vegetable crop

'B'

- a) Spinach
- b) Ivy gourd
- c) Tomato
- d) Pusa Meghdoot
- e) Radish
- f) Sweet potato
- g) Bitter gourd
- h) Arka Anamika

