

Hemchandracharya North Gujarat University, Patan
Advanced diploma in Agriculture and Soil Sciences
End term Examination Semester IV April 2019
AS 404 (Principles of Plant breeding)

Time: 2 hrs

Date: 29/04/2019

Maximum marks: 40

Q.1 Answer all questions. Each question carries 1 mark

(10*1=10 Marks)

1. Which are the parts of flower?
2. Self-pollination leads to _____.
A. Homozygosity B. Heterozygosity C. Both A&B D. None of these
3. Which of the following is Male reproductive organ?
A. Stamen B. Pistil C. Both D. None
4. Plant breeding can improve _____ of plant.
A. Susceptibility B. Dormancy C. Heredity D. None
5. Define: cross pollination.
6. Write down the scientific name of Wheat and Cotton.
7. Barelly is a _____ pollinated crop:
A. Often-cross B. Self and cross C. Cross D. Self
8. Heterozygous individuals are represented as _____.
A. RR B. rr C. Rr D. None of these
9. What is Male sterility?
10. Flower is specialized:
A. Shoot B. Leaf C. Stem D. Tendril

Q. 2. Answer any 4 questions. Each question carries 5 marks

(5*4=20 Marks)

(SHORT QUESTIONS)

1. Write a note on Hybridization.
2. Explain in detail: Mode of reproduction in plants.
3. Write in detail: Back cross and test cross method.
4. Describe: self incompatibility.
5. Describe in detail- Pure line theory.

Q.3 Answer any 1 question. The question carries 10 marks.

(1*10=10 Marks)

(DESCRIPTIVE QUESTIONS)

1. Explain briefly: Aims and objectives of Plant breeding.
2. Describe in detail: Emasculation, bagging and tagging.

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1. Write a note on Hybridization

4. Describe self incompatibility

Q. 2. Answer any 4 questions. Each question carries 5 marks