

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE
B.Sc.(Hons.) Agriculture Winter 2019 - 20 Examination

Semester: 4

Date: 05/12/2019

Subject Code: 20102251

Time: 2:00 pm to 4:30 pm

Subject Name: Breeding of Field crops/Horticultural crop

Total Marks: 60

Instructions

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Do as Directed.**A. Fill in the blanks. (Each of 1.00 marks)****(10)**

1. The book Breeding of Field crops is written by _____.
2. Wheat contains a substance called as _____ which make possible the production of loaf bread.
3. Rice is the staple food of more than ____% of the world production.
4. Corn is the queen of all _____ crop.
5. The genus tripsacum is a close relative _____.
6. _____ is the one of the most dual purpose crop.
7. _____ crop is grown as an animal feed in the USA and Australia.
8. Sorghum is _____ plant and therefore has higher photosynthetic efficiency.
9. Full form of QPM _____.
10. _____ crop flower open in the morning in between 5 to 6 am.

B. Multiple choice type questions. (Each of 1.00 mark)**(10)**

1. Breeding of Field crop written by

a) V. L. Chopra	c) V. C. Dave
b) V. L. Mathur	d) H. L. Hayes
2. Wheat is _____ Crop.

a) Cereal	c) Oil Seed
b) Pulse	d) All of The above
3. *Triticum aestivum* is the _____ Species of wheat.

a) Wild	c) Local
b) Irrigated	d) None of The above
4. Chromosome number of tetraploid wheat

a) 2n=28	c) 2n=30
b) 2n=29	d) 2n=24
5. Out Crossing Percentage in rice is

a) 0-1 %	c) 0-3 %
b) 0-2 %	d) 0-4 %
6. Local name of Pearl Millet is _____.

a) Bajra	c) Rice
b) Maize	d) All of The above
7. Heterosis in rice first reported by Jones in USA in _____ Year.

a) 1924	c) 1926
b) 1925	d) 1964
8. Family of Maize is _____.

a) Poaceae	c) Fabaceae
b) Gamineae	d) None of the above
9. AICMIP is located in

a) Hyderabad	c) Mumbai
b) Delhi	d) SDAU
10. HB1 is the first hybrid of _____ crop.

a) Maize	c) Babul
b) Wheat	d) Bajra

Q.2 Do as Directed.**A. Define the following. (Any five)****(05)**

1. Homogeneous

2. Hybrid
3. Triticale
4. Pureline
5. Mass Selection
6. Emasculation
7. Crossing

B. Answer the following. (Any Five)

(05)

1. Enlist the breeding methods used in Crop improvement.
2. Write down four reference books with their Author.
3. Enlist the types of Sorghum.
4. State the Breeding objective of Wheat.
5. Briefly Describe the Pedigree method.
6. Enlist the improved variety of sugarcane.
7. State the main Features of Maize crop.

Q.3 Write short notes. (Any five)

(15)

1. Aims of Plant Breeding
2. Teosinte
3. Maize Breeding
4. Breeding objective of Sorghum
5. Biometric
6. Heterosis

Q.4 Attempt any Three/Long Questions/Example

(15)

1. Breeding Methods
2. Floral Biology of rice
3. Emasculation
4. Explain in detail: Breeding Population