

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: IV (New)	Term	: Second	Academic Year	: 2021-22
Course No.	: GPB 243	Title	: Principles of Seed Technology		
Credits	: 3 (1+2)				
Day & Date	: Tuesday, 20.09.2022	Time	: 14:00 to 16:00 hrs	Total Marks	: 40

- 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 diagram wherever necessary.

SECTION 'A'

- Q.1 Write certified hybrid seed production of Sorghum on the following points:
- a) Planting ratio
 - b) Seed rate
 - c) Isolation distance
 - d) Rouging
- Q.2 What is seed technology? Enlist the roles and goals of seed technology.
- Q.3 Define intellectual property rights. Give the salient features and requirement of plant breeder rights.
- Q.4 Define seed. Describe in detail the stages/classes of seed multiplication.
- Q.5 What is meant by seed processing? Enlist various steps in seed processing and give its importance.
- Q.6 Describe the certified seed production of Brinjal variety on the following point:
- a) Isolation requirement
 - b) Seed rate
 - c) Field inspection
 - d) Harvesting and seed extraction
- Q.7 Write short notes on :
- a) Field inspection
 - b) Basic requirement of seed marketing
- Q.8 Describe the certified hybrid seed production of Maize on the following points:
- a) Planting ratio
 - b) Isolation requirement
 - c) Seed rate
 - d) Detasseling
- Q.9 Define varietal deterioration. Explain genetic causes of deterioration of improved variety.
- Q.10 Define seed certification and describe the procedure of seed certification.

SECTION 'B'

- Q.11 Define the following terms:

- 1) Marker plants
- 2) Pollen shedder
- 3) Notified variety
- 4) Staggering

(P.T.O.)