

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.Sc. (Agri.)

Semester	: VI (New)	Term	: II	Academic Year	: 2016-17
Course No.	: BOT 367	Title	: Principles of Seed Technology		
Credits	: 3 (2+1)	Time	: 09.00 to 12.00	Total Marks	: 80
Day & Date	: Thursday, 27.04.2017				

- 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"

- Q.1 Define seed quality. Give the characters of good quality seed.
- Q.2 Define seed technology. Enlist and write down in detail genetic principles of seed production.
- Q.3 Define seed certification. Write down the objectives of seed certification.
- Q.4 Furnish the information on following points with regards to hybrid seed production of cotton.
- 1) Planting ratio
 - 2) Roughing
 - 3) Emasculation
 - 4) Pollination
- Q.5 What is Seed Act? Write down its importance, applicability, sanctioning regulations and regulatory legislation.
- Q.6 How will you maintain the breeder seed of established variety?
- Q.7 Define seed treatments. Write down in detail types and benefits of seed treatments.
- Q.8 Describe in detail about the different stages of seed multiplication.
- Q.9 Write the importance of seed storage and describe in brief factors affecting seed longevity during storage.
- Q.10 Write short notes (Any two)
- 1) Plant Breeder's Right
 - 2) Field inspection
 - 3) Methods of seed drying

SECTION "B"

- Q.11 Define the following terms.
- 1) Seed viability
 - 2) Isolation
 - 3) Roughing
 - 4) Off type
 - 5) Synchronization
 - 6) Pollen shedder
 - 7) Dormancy
 - 8) Staggering
- Q.12 A) Answer in one sentence.
- 1) What is minimum seed moisture content for safe storage of seed?
 - 2) Name the test used for varietal identification.
 - 3) Seed Act was passed in which year?
 - 4) What is the minimum isolation distance for foundation seed production of onion?
- B) Give full forms of the following.
- 1) ISTA
 - 2) MSSC
 - 3) NSC
 - 4) MSCS

