

KERALA AGRICULTURAL UNIVERSITY
B.Sc.(Hons.) Agriculture – 2007 Admission – VIth Semester
Final Examination – June - July 2010

Cat. No. : Pbgn 3205

Title : Principles of Seed Technology (1+1)

Max. marks: 80

Time : 3 hours

I. Fill up the blanks

10 x 1 = 10

1. A seed is a matured _____.
2. The process to overcome exogenous dormancy is called as _____.
3. In maize, pollination is mainly brought about by _____.
4. Presence of B line plant in A line is called _____.
5. For every decrease of _____ percent in seed moisture the life of the seed is doubled.
6. Blue colour tag is used for _____ class of seed.
7. The isolation distance stipulated for a certified crop of tomato is _____ meters.
8. The basic equipment in seed processing plant is _____.
9. ISTA stand for _____.
10. In India seed certification is _____.
11. Seed testing is done to assess _____.

II. Write short notes on ANY TEN of the following

10 x 3 = 30

1. Seed inspectors
2. Characteristics of quality seeds
3. Tomato seed extraction
4. Three way cross
5. Seed packaging containers
6. Seed pelleting
7. Equilibrium moisture content
8. Sampling intensity
9. Types of seed treatment
10. Disc separator
11. Rogueing
12. Marketing organization

III. Write short Essay on ANY SIX of the following

6 x 5 = 30

1. Explain the importance of quality seed in food production.
2. Discuss in brief the two most important factors affecting viability of seeds during storage.
3. Write in brief about establishment and functions of Central Seed Committee.
4. Briefly outline the various steps involved in rice hybrid seed production.
5. Explain the properties of air and their effect on seed drying.
6. Give a brief account of types and importance of seed treatment.
7. Differentiate seed production with that of grain production.
8. Explain briefly detasseling in maize.

IV. Write Essay on ANY ONE of the following

1 x 10 = 10

1. What do you understand by seed processing? What are the principles on which air screen cleaner works? Write in detail about working of different seed upgrading equipments.
2. What are the characteristics of quality seeds? Briefly explain the various factors that affect varietal deterioration and how will you overcome these problems?