

# KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2012 Admission

VI<sup>th</sup> Semester Final Examination- July /August -2015

Cat. No: Pbn.3205

Title: Principles of Seed technology (1+1)

Marks: 80

Time: 3 hours

1-a. Fill in the blanks (Question Number 1 to 5)

(5 x 1=5)

1. The tags of breeders seeds is of .....color
2. As per UPOV Act 1991 breeders exemption is there for except.....
3.  $(\text{Purity \%} \times \text{Germination \%}) / 100 = \dots\dots\dots$
4. Notified Seed Testing Laboratories in Kerala are located in ..... and .....
5. First seeds available with the producing breeder are termed as.....

1-b Match the isolation distance for the seed certification of following crops

(Certified Seeds)

(Question Number 1 to 3)

(3 x 1 =3)

- |            |     |        |
|------------|-----|--------|
| 1. Tomato  | ( ) | 1.200m |
| 2. Brinjal | ( ) | 2.20 m |
| 3. Bhindi  | ( ) | 3.100m |

1-c. State true or false (Question Number 1 to 4)

(4 x 0.5=2)

1. Certified seed is the progeny of registered seed
2. The Indian Seed Act was enacted in 1968.
3. The chemical Tetrazolium develops a red color when reduced by living cells.
4. The standard for pure seeds (minimum) for foundation seeds of maize is 95%.

2. Write short notes on ANY TEN (Question Number 1 to 12)

(10 x 3=30)

1. Farmers Rights
2. Dockage
3. SSCAs
4. Breeders Seed
5. Seed Drying

6. Patents
7. Roguing
8. Detasselling
9. Cultivar Purity Test
10. Seed Inspectors
11. Air Screen Machine
12. Bagging and Labelling of seeds

3. Write short essays on ANY SIX of the following (Question Number 1 to 8)(6 x 5=30)

1. Briefly explain Seed Act 2000 and Seed Control Order 1983
2. Differentiate Certified Seeds and Foundation Seeds
3. Compare and Contrast Breeders Exemption and Plant Breeders Rights
4. Explain briefly the procedure for the production of foundation seed and certified seed in maize
5. Briefly explain the types of seed treatment and the equipments used for the same
6. Write short note on seed marketing
7. Describe the general principles of seed storage and factors affecting longevity during the storage
8. Describe various methods adopted under Germination Test

4. Write essay on ANY ONE of the following (Question Number 1 to 2) (1 x 10=10)

1. Describe briefly the procedure for foundation seed and certified seed production in rice (Varieties and Hybrids)and Bhindi
2. Define seed quality and its importance in seed production. Briefly explain the characters of good quality seeds. List out the different classes of seeds and elaborate anyone of them.

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