

KERALA AGRICULTURAL UNIVERSITY

B.Sc Hons (Ag) 2010 Admission

VIth Semester Final Examination- July /August -2013

Cat. No: Pbg.3205

Title: Principles of Seed technology (1+1)

Marks: 80

Time: 3 hours

I. Fill up the blanks/ Define

(10 x 1 = 10)

- 1) Define protogyny
- 2) Define pollen shedders
- 3) Define De-tasselling
- 4) Mention any two fumigants used for fumigating seeds
- 5) Mention any two inert materials used for seed pelleting
- 6) When was seed act and seed rules enacted?
- 7) Mention colour of the tag for breeder and foundation seed
- 8) Mention different types of seed storage containers
- 9) Tip sterility due to.....at flowering stage and it will occur in Crop
- 10) Expand the following: ISTA and AOSA

II. Write short notes/answers on ANY TEN

(10 X 3=30)

- 1) Characters of quality seed
- 2) What is roughing, volunteer plants and off types?
- 3) Give advantages of GA₃ application during paddy hybrid seed production
- 4) Define vigour and explain any two vigour test s
- 5) Describe about L.F.R and Re-inspection
- 6) Describe Plant Breeders Right
- 7) Mention advantages and disadvantages of mechanical drying
- 8) Describe about IDS (Incubation – Drying and Separation) method
- 9) Give benefits of seed treatments
- 10) What is seed hardening and give its advantages
- 11) How will you practice sanitation techniques in seed storage godown?
- 12) Describe about fumigation

III. Write short essays on ANY SIX of the following

(6 x 5 = 30)

- 1) Explain the influence of climatic factors on quality seed production?
- 2) What is Synchronization of flowering? What are the techniques to be adopted to get better synchrony in hybrid rice seed production?
- 3) Discuss the seed production techniques in Tomato?
- 4) Discuss about central seed committee and its functions?
- 5) Discuss about forced air seed drying?
- 6) Define seed processing and explain the basic flow diagram of seed processing?
- 7) What are the objectives and importance of seed testing? Enumerate the quality parameters evaluated at the seed testing laboratory?
- 8) What is seed storage? Explain types of storage and seed packing material?

IV. Write essay on ANY ONE

(1 X 10 = 10)

- 1) Discuss about the causes for varietal deterioration of seed and explain the methods to be adopted to overcome the same?
- 2) Discuss the factors affecting longevity during seed storage?