



KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) Ag. 2016 Admission
III Semester Final Examination-February-2018

Pbgn.2103

Crop Improvement I (1+1)

Marks:50
Time: 2 hours
(10x1=10)

I Fill in the blanks:

- 1 Sum total of heredity material is-----
- 2 Variety of rice known as Miracle rice is-----
- 3 Bioversity International is located at -----
- 4 Expand TGMS -----
- 5 Father of Green revolution in World is -----
- 6 Parents of Keraganga coconut hybrid is -----
- 7 Seedless watermelon variety with yellow flesh released from KAU is -----
- 8 One introduced variety of wheat is -----
- 9 Wild species of rice cultivated in Kerala is -----
- 10 Perennial okra variety released from KAU is -----

II Write Short notes on ANY FIVE of the following

(5x2=10)

- 1 Different types of maize
- 2 Breeding objectives of groundnut
- 3 Comparison of three sub species in rice
- 4 Expand with headquarters IPGRI,CYMMIT, AVRDC,CRRI
- 5 Floral Biology in groundnut
- 6 Gene pool concept
- 7 Ideal plant type in rice

III Answer ANY FIVE of the following

(5x4=20)

- 1 Breeding objectives of maize
- 2 Methods of selection in coconut
- 3 Explain the parentage, breeding procedure and salient features of KAU released bhindi and chilli varieties
- 4 Origin of hexaploid wheat
- 5 Single, double and three way cross hybrids in maize with examples
- 6 Different types of genetic populations in plant breeding
- 7 Floral biology and pollination in Til

IV Write an essay on ANY ONE of the following

(1x10=10)

- 1 Explain briefly the different breeding methods adopted in rice improvement with examples. What is hybrid rice and explain the three line breeding system in rice
- 2 Explain the term plant genetic resources. What are the different activities involved in germplasm conservation
