KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Agriculture 2014 Admissions Vth Semester Final Examination-January-2017

Cat. No: Pbgn.3104	Marks: 50.00
Title: Breeding of crops (2+1)	Time: 2 hours
I Fill up the blanks	(10x1=10)
(1.) Expansion of IPR is	
2. Name a dwarfing gene in wheat	
3. Progenitor of maize is	
4. Theobroma cacao is now reclassified under the family	••••
5. Species of <i>Pennisetum</i> , in which apomitic gene is reported	
Progenitor of Red gram is	
University is a white seeded sesamum released from Ker	rala Agricultural
	lonmont Contro
(8) Head quarters of Asian Vegetable Research and Deve (AVRDC) is located at	
(9) First coconut hybrid was produced by in 1934	•
10. Breeding method adopted for release of KAU cashew variety '	Sulabha'
is	
II Write short notes on any FIVE of the following	(5x2=10)
1. What is patent and its requirements. What are all not patentable	in India?
2. List different species of maize with its ploidy level and chromo	
3. What are all the morphological features preferred for "Super ric	
(4) Red Data Book	
5. List five sub species of Vigna unguiculata	
(6) Explain seedling selection criteria for coconut	
7. List the major breeding objectives set for cashew improvement	
III Write short notes on any FIVE	(5x4=20)
Explain modified ear to row selection in maize	
(2) Define "Biological Diversity" and explain importance of biodiversity	conservation of
3. Give floral biology of ground nut with suitable diagram a pollination	nd its mode of
4. Name four important national centers dealing with mango be	reeding. Explain
the 'cage method' used in hybridization programme of mango.	
Explain 'Test tapping' in rubber.	
6.) Comment on parentage, breeding procedure and critical fe	atures of KAU
released Chilli varieties - Jwalamukhi, Jwalasakhi, Ujwala	
Manjeri.	
7. Explain India's legal case with Basmati patent and how Ind	ian Government
protested against this.	
IV Write Essay on any ONE	(1x10=10)
(1.) What are the different breeding methods to develop hybrid ric	e? Explain three
line breeding system in rice.	
2. Explain in detail TBGRI (Tropical Botanical Garden and Re	search Institute)
model of Benefit sharing.	