KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2013 Admission

IVth Semester Final Examination-July/August-2015 and control of the second of t

Cat. No: Bio Title: Princip	ot.2201 ot.2201 ciples of Plant biotechnology, Bio safety rules and Intellectual property	ks:-50 _
I Fill up the		
1.	is the most commonly used carbon source in plant tissue cultur	re medium
2	is chemical used for encapsulating embryo to produce synth	netic seeds
3	is tissue culture technique to produce triploid plants	
4	is the enzyme necessary for synthesizing DNA from RNA	
5	is a molecular method for amplifying a known region in a DY	NA molecule
6	is the commonly used bacteria for indirect gene transfer	
7	are restriction enzymes identifying the same palindrome	
8.	are the genetic variations spontaneously originating in p	lants produce
throug	igh tissue culture	
9.	refers to the ability of a plant cell to divide and generate into	a whole plant
10.	is the specific enzyme for DNA synthesis during PCR	
II Write shor	ort notes on any FIVE (5	5 x 2=10)
1. Mappin	ing QTL	
2. Somatic	ic embryogenesis	
3. Cybrids	ds and their uses	
4. Cosmid	ds	
5. Geograp	aphical indications	
6. RAPD	and its applications	
7. TRIPS	and its significance	
III Write sho	ort notes on any FIVE (5 x	(4=20)
1. Describ	be the different stages of micropropagation	
2. Biotech	hnology related IPR issues	
3. Transge	enic plants and their applications	
4. Marker	r assisted selection and its application in crop improvement	
5. Protopla	last isolation ,culture and fusion	
6. DNA fin	ingerprinting and its applications	

7. Gene cloning-steps involved