KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry Degree Programme 2015 Admission
IInd Semester Final Examination-August-2016

Cat. No: Tpbr 1205		Marks: 50.00
ľi	itle: Principles of Cytology and Genetics (2+1)	Time: 2 hours
1		(10 x 1 =10)
	Chromosome theory of Inheritance is proposed by	 '
	2 demonstrated existence of multiple factors.	
	3. Synapsis occurs during phase.	
	4. Number of mitotic divisions involved in Microgametogenesis is	
	5. Some solutes enter the cytoplasm through the process	
	6. If sex index ((SI) value of an individual is 0.75, then sex expression	n would be
	7. 20 unit of map distance is equivalent to% of crossin	g over.
	8. Down syndrome is caused by condition.	
	9. Lagging strand replication generating small polynucleotide fragme	ents
	10. A nucleosome core has bp long DNA molecule.	•
II		$(5 \times 2 = 10)$
		₹ ¢
	1. Euploidy	
	2. Physical mutagens	
	3. CMS in plants	
	4. Incomplete dominance	
	5. Karyotype	
	6. Criss-cross inheritance	
	7. Epistasis	•
[1]	I. Explain ANY FIVE of the following	(5 x 4 =20)
	1 Timbraga	
	1. Linkage	
	2. Sporogenesis	<i>;</i>
	3. Transcription	
	4. Classifications of Mutations	
	5. Stages of prophase-I	
	6. Characteristics of Genetic Code	
	7. Maternal Inheritance	
ĪV	V. Write essay on ANY ONE	(1 x 10=10)
	1. Structural Chromosomal aberrations	
	2. DNA replication	