GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER–VIII • EXAMINATION – SUMMER • 2014

		bject Code: 180402 Date: 31-05-2014	
	Tin	oject Name: Animal and Plant BiotechnologyTotal Marks: 70ne: 10:30 am - 01:00 pmTotal Marks: 70ructions:1. Attempt all questions.1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.	
Q.1	(a) (b)	Describe various advantages of plant tissue culture techniques. Describe various applications of animal tissue culture.	07 07
Q.2	(a) (b)	Comment on the laboratory organization for animal tissue culture. Describe various sterilization techniques used in plant tissue culture. OR	07 07
	(b)	Describe various applications of plant tissue culture.	07
Q.3	(a) (b)	Describe historical perspective of plant tissue culture. Describe historical perspective of animal tissue culture. OR	07 07
Q.3	(a) (b)	Explain the principle and procedure involved in plant tissue culture. Explain the principle and procedure involved in animal tissue culture.	07 07
Q.4	(a) (b)	What is organogenesis? Explain the importance of organogenesis for plant tissue culture technique. Comment on superovulation and embryo transfer technique. OR	07 07
Q.4	(a) (b)	Describe the principle, procedure and importance of in vitro fertilization. Comment on development and use of artificial skin.	07 07
Q.5	(a) (b)	Comment on the development and significance of transgenic mice. Comment on the implications of targeted gene transfer technique. OR	07 07
Q.5	(a) (b)	Justify the development and use of transgenic crops. How will you develop salt-tolerant crop variety?	07 07
