LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034 Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY FIRST & SECOND SEMESTER – APRIL 2018			
		AZ 1505 / AZ 2506- BASIC BIOTECHNOLOGY	
Date: 02-05-2018 Dept. No Time: 01:00-04:00	Max. : 100 Marks		
PART – A			
Answer ALL questions, each in a few words	10 × 2 = 20 marks		
01. Define intellectual property.			
02. Mentionthe differences between patent and copyright.			
03. What is secondary cell culture?			
04. Explain the significance of trypsinization in tissue culture?			
05. Enumerate the use of restriction endonucleases in rDNA technology.			
06. What are cosmid vectors?			
07. Define biosensor.			
08. What is fermentation?			
09. Give one reason why GM foods are harmful?			
10. What are the research uses of transgenic fish?			
PART B			
Answer any FOUR questions, each in about two pages	4 × 10 = 40 marks		
11. Discuss briefly the interdisciplinary activity of biotechnology.			
12. What are the basic requirements for a tissue culture?			
13. Give a brief classification of restriction enzymes. Explain with an example.			
14. Illustrate the design and working of a bioreactor.			
15. What is cryopreservation? What are its applications?			
16. Write notes on: (i) Gene therapy and (ii) Nanotechnology			
PART C			
Answer any TWO questions, each in about 4 pages	2 × 20 = 40 marks		
17. Discuss the applications an animal biotechnology.			
18. Discuss the Biosafety guidelines.			
19. Give an account of the principle and uses of PCR.			
20. Explain the applications of biotechnology in aquaculture.			
