

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY & BIOTECH.

SIXTH SEMESTER – NOVEMBER 2009

Z 654 - BIOTECHNOLOGY

Date & Time: 14/11/2009 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

PART A

Explain/define the following

10 X 2 = 20marks

1. Proteomics.
2. Introns and exons?
3. DNA microarray.
4. Genetic fingerprinting.
5. GMO.
6. Operon.
7. Biosensor.
8. Transposon.
9. Structural gene.
10. SCP.

PART B

Answer any FOUR

4 X 10 = 40marks

11. Explain isolation of protoplast.
12. Write notes on cosmids.
13. Enumerate the application of biotechnology in agriculture.
14. Explain international safety guidelines.
15. Explain vectors and plasmids.
16. Write notes on monoclonal antibody.

PART C

Answer any TWO

2 X 20 = 40marks

17. Describe patent law and intellectual property rights.
18. Write an essay on biofuel technology.
19. Discuss social and moral implications of biotechnology.
20. Explain biotechnology scenario in India and global trends.
