

**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

M.Sc. DEGREE EXAMINATION – ZOOLOGY

THIRD SEMESTER – APRIL 2010

**ZO 3802 - BIOTECHNOLOGY**

Date & Time: 03/05/2010 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

**SECTION- A**

Explain/ define the following

(10x2=20 marks)

1. Cryopreservation.
2. Bioreactors.
3. Transposons.
4. Cybrids.
5. Proteomics.
6. GMOs.
7. Biosensors.
8. Operon.
9. Structural genes.
10. Transgenesis.

**SECTION - B**

Answer any **FOUR** of the following

(4x10=40marks)

11. Write notes on human genome project.
12. Describe genetic disorders in man.
13. Describe the preparation and uses of DNA probes.
14. Explain the role of biotechnology in aquaculture.
15. Give an account on tissue culture.
16. Enumerate rDNA production of human insulin.

**SECTION – C**

Answer any **TWO** of the following

(2x20=40marks)

17. Describe bio fuel technology.
18. Discuss patent law and intellectual property rights.
19. Elaborate social and moral implications of biotechnology.
20. Discuss biotechnology scenario in India.

\$\$\$\$\$\$\$\$