

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



**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**FIFTH SEMESTER – APRIL 2023**

**UAZ 5503 – ANIMAL BIOTECHNOLOGY**

Date: 05-05-2023

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

**PART -A**

**Answer ALL Questions**

**Write a brief note on the following**

**(10x2=20)**

1. Stem cell
2. Culture media
3. Lipofection
4. Particle gun
5. Transgenic fish
6. Knock out mice
7. Transplantation
8. Gene therapy
9. Bioreactor
10. Genome

**PART-B**

**Answer any FOUR Questions**

**(4x10=40)**

11. Write in details on the requirement for animal and tissue culture.
12. Explain the DNA sequencing.
13. Describe the different methods of transfection.
14. Write notes on monoclonal antibody.
15. Give an account on socio-ethical issue related genetic engineering.
16. Explain the design and process of fermentation with an example.

**PART-C**

**Answer any TWO Questions**

**(2x20=40)**

17. Write an essay on the molecular markers and its application in rDNA technology.
18. Explain transgenic in animal and importance of live stocks.
19. Describe about RAPD, RFLP and its applications.
20. Give an account on human genome project.

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