

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – CHEMISTRY

FOURTH SEMESTER – APRIL 2023

UAZ 4401 – ANIMAL BIOTECHNOLOGY AND BIOINFORMATICS

Date: 04-05-2023

Dept. No.

Max. : 100 Marks

Time: 09:00 AM - 12:00 NOON

Part-A

Answer ALL the questions

(10 x 2=20)

1. Define 'transgenesis'
2. Write a note on 'pharmacogenomics'
3. Comment on DNA barcode
4. Write a note on PCR
5. Mention any two applications of molecular taxonomy
6. Comment on the importance of stem cells
7. Define 'RasMol'
8. Comment on bactofection
9. Write a note on bioinformatics
10. Mention the two purposes of human genome project

Part-B

Answer any FOUR questions

(4 X 10 =40)

11. Form an essay on applications of human genome project
12. Elaborate on the applications of DNA barcoding
13. Discuss the merits and demerits of cloning
14. Give an account of any types of protein structure visualization tools
15. Write an essay on biological database and their types
16. Enumerate the importance of assisted reproductive technique (ARTs)

Part-C

Answer any TWO questions

(2 X 20 =40)

17. Form an essay on an overview of bioinformatics and its applications.
18. Summarize the structure and functions of DNA.
19. Compile the structure of prokaryotic gene and the characteristic features of prokaryotic Genome.
20. Analyse the BLAST and its applications in the field of bioinformatics.

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