

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

SECOND SEMESTER – APRIL 2022

UAZ 2503 – CELL BIOLOGY

Date: 18-06-2022
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Answer All questions

(10x2=20 Marks)

Define

1. Resolving power
2. Mordant
3. Mycoplasmas
4. Mesosomes.
5. Nucleosome.
6. Phagosome.
7. Angiogenesis.
8. Annulate lamellae.
9. Genetic code.
10. Totipotency.

PART – B

Answer any FOUR Questions

(4 x 10 = 40 Marks)

11. Explain the fluid mosaic model of plasma membrane with a diagram.
12. Illustrate and explain the structure of Tobacco mosaic virus.
13. Write a note on the types of RNA and their structure and functions.
14. Classify stem cells and explain the features.
15. Illustrate and explain the structure of an animal cell.
16. Explain the principle and procedure of thin layer chromatography.

PART – C

Answer any TWO Questions

(2 x 20 = 40 Marks)

17. Summarise the various stages of mitosis and meiosis and discuss the significance.
18. List out the various functions of endoplasmic reticulum.
19. Discuss in detail the important hall marks of cancer and evaluate the causes of cancer.
20. Summarise the steps involved in transcription and translation.

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