



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ZOOLOGY

FIFTH SEMESTER – APRIL 2016

ZO 5500 - CELL BIOLOGY

Date: 26-04-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL the questions

(10×2=20 Marks)

1. What is cell doctrine?
2. Define resolving power.
3. Expand SEM and TEM.
4. Comment on vital staining.
5. Differentiate prokaryotes from eukaryotes cell.
6. What is facilitated diffusion?
7. List out lysosomal diseases.
8. Define biogenesis.
9. Differentiate DNA from RNA
10. What is programmed cell death?

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Write notes of phase contrast microscope.
12. Describe the molecular methods to study the cells.
13. Explain the fluid mosaic membrane models.
14. Give an account on Golgi complex.
15. Write notes on the structure and kinds of RNA.
16. Describe meiosis cell division.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Differentiate prokaryotes and Eukaryotes cell with suitable examples (Draw diagram).
18. Explain transport mechanism.
19. Write an essay on Protein synthesis.
20. Describe the cytology of cancer.
