



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc.DEGREE EXAMINATION – ZOOLOGY

FIFTH SEMESTER – APRIL 2017

ZO 5500- CELL BIOLOGY

Date: 20-04-2017
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

Part-A

(10×2=20 Marks)

Answer ALL the questions

1. What is cell theory?
2. Define Magnification.
3. Expand SEM and TEM
4. Comment on vital staining.
5. Differentiate prokaryote from eukaryote cell.
6. What is active transport?
7. List out lysosomal diseases.
8. Define biogenesis.
9. What is carcinogenesis?
10. Comment on cell suicide.

Part-B

(4×10=40 Marks)

Answer any FOUR questions

11. Write notes on electron microscope.
12. Describe the molecular methods to study cells.
13. Explain the Singer and Nicolson membrane models.
14. Give an account on ribosome.
15. Write notes on the structure and kinds of RNA.
16. Describe meiosis cell division.

Part-C

(2×20=40 Marks)

Answer any TWO questions

17. Explain cell membrane transport system.
18. Write an essay on mitochondria.
19. Describe the cytology of cancer.
20. Write an essay on DNA damage and repair mechanisms.