



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FIFTH SEMESTER – APRIL 2017

AZ 5512- CELL BIOLOGY

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

Dept. No.

Max. : 100 Marks

PART A

Answer ALL questions, each in a few words **(10X2=20Marks)**

1. What is resolving power ?
2. What is the use of camera lucida ?
3. Define Cell fractionation.
4. Comment on Permeability
5. What is oxidative phosphorylation ?
6. What is trilaminar concept ?
7. Distinguish between cilia and flagella.
8. Mention the types of RNA
9. What is the significance of chiasma formation ?
10. Explain applications of fluorescence microscopy.

PART B

Answer any FOUR questions, each in about two pages **(4X10=40 Marks)**

11. Explain the technique of autoradiography.
12. Describe cell cycle.
13. Elaborate ultrastructure of mitochondria.
14. Tabulate differences between DNA and RNA.
15. Give an account of lysosome functions.
16. Write notes on Mitosis.

PART C

Answer any TWO QUESTIONS, each in about four pages **(2X 20 = 40 Marks)**

17. Elaborate the microtechniques with particular emphasis on types of stains, staining methods and vital stains.
18. Compare the Cell structure of Prokaryotes and Eukaryotes.
19. Describe the structure and function of Golgi Complex.
20. Discuss the organization of chromosome. Add a note on giant chromosome.
