

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FIFTH SEMESTER – APRIL 2016

AZ 5512 – CELL BIOLOGY

Date: 26-04-2016

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

PART – A

ANSWER ALL QUESTIONS:

(10 x 2=20 marks)

1. What is TEM?
2. Cell Theory.
3. Autoradiography.
4. Cristae.
5. Phagocytosis.
6. Vital Staining.
7. Active Transport.
8. Centrioles.
9. ATP
10. Oncogenes.

PART – B

ANSWER ANY FOUR IN BRIEF:

(4 x 10=40 marks)

11. Describe the principle of a Phase contrast microscope.
12. Differentiate a Prokaryote from a Eukaryote.
13. Give an account on the functions of Golgi apparatus.
14. Describe an interphase nucleus.
15. Explain the properties of cancer cell.
16. Describe the different stages of Lysosomes.

PART – C

ANSWER ANY TWO IN DETAIL:

(2 x 20=40 marks)

17. Describe the ultra-structure and functions of endoplasmic reticulum.
18. Explain the functions of Mitochondria.
19. Describe the structure and importance of giant chromosomes.
20. Give an account on protein synthesis.

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