



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FIFTH SEMESTER – APRIL 2019

16UZO5MC01 / AZ 5516 – MOLECULAR CELL BIOLOGY

Date: 25-04-2019
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

SECTION – A

Answer ALL the questions:

(10x2=20 Marks)

1. What is meant by Suicidal bags?
2. What is Refractive index?
3. Comment on Biogenesis.
4. What is mRNA?
5. Define Apoptosis
6. What is Prokaryote?
7. Mention any two Stains used in Histological studies.
8. Comment on Glyoxisomes.
9. What is DNA repair?
10. Define Oncogenes.

SECTION-B

Answer any **FOUR** of the following questions:

(4×10=40 Marks)

11. Describe the Structure of Animal cell.
12. Explain the working principles of Phase Contrast Microscope.
13. Write a brief account on the Structure and their Functions of Golgi Complex.
14. Highlight the steps involved in DNA Replication.
15. Give a brief notes on Oncogenes.
16. Write an essay on Meiosis and its significance.

SECTION-C

Answer any **TWO** of the following questions:

(2 ×20=40 Marks)

17. Give an account on Principle and Applications of Scanning Electron Microscope.
18. Describe the Structure and their Functions of Endoplasmic Reticulum.
19. Write brief notes on Cell Signalling.
20. Explain in detail about Tumour Suppressor Genes.
