



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ZOOLOGY

FIFTH SEMESTER – NOVEMBER 2016

ZO 5500 - CELL BIOLOGY

Date: 01-11-2016
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part-A

Answer ALL the questions

(10×2=20 Marks)

1. Define resolving power.
2. Expand SEM and TEM.
3. Differentiate acidophilic from basophilic stain.
4. What is facilitated diffusion?
5. List out the enzymes involved during DNA replication.
6. Define endocytosis.
7. Differentiate tRNA from mRNA
8. What is apoptosis?
9. Define carcinogenesis.
10. What is nuclear transfer?

Part-B

Answer any FOUR questions

(4×10=40 Marks)

11. Give an account cell theory.
12. Write notes of Electron microscope.
13. Describe the centrifuge and electrophoresis.
14. Explain the Singer and Nicolson membrane model.
15. Give an account on lysosome functions.
16. Describe mitosis cell division.

Part-C

Answer any TWO questions

(2×20=40 Marks)

17. Explain plasma membrane transport mechanism.
18. Describe the structure and functions of mitochondria
19. Describe the cytology of cancer.
20. Write an essay on Protein synthesis.
