

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



M.Sc.DEGREE EXAMINATION –ZOOLOGY

SECOND SEMESTER – APRIL 2018

17/16PZO2MC01– MOLECULAR CELL BIOLOGY

Date: 17-04-2018

Dept. No.

Max. : 100 Marks

Time: 01:00-04:00

PART- A

Answer ALL the questions.

(10×2 = 20 marks)

01. Name any few essential facts about cancer?
02. Define antioncogene.
03. Name the cancer prone to develop in females.
04. Mention the nucleoproteins present in nucleus.
05. Differentiate gram positive and negative bacteria.
06. What is attenuation?
07. Comment on warrior genes.
08. Explain non-destructive DNA extraction method.
09. What are neurotransmitters?
10. Name three different DNA dependent RNA polymerases.

PART- B

Answer any FOUR questions.

(4×10 = 40 marks)

11. Give an account on P53 gene.
12. Discuss cancer is a family syndrome and mutational nature of cancer.
13. Explain the general principles of cell signaling.
14. Write notes on chromatin remodeling.
15. Describe bacteriophage.
16. Explain DNA profiling.

PART- C

Answer any TWO questions.

(2×20 = 40 marks)

17. Discuss the life cycle of Rous sarcoma virus.
18. Describe different types of RNA.
19. Give an account on genetics of aging.
20. Explain DNA damage and repair mechanism.
