



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc.DEGREE EXAMINATION –ZOOLOGY

SECOND SEMESTER – APRIL 2019

18PZO2MC03– BIOCHEMISTRY

Date: 09-04-2019
Time: 01:00-04:00

Dept. No.

Max. : 100 Marks

PART- A

Answer ALL the questions.

(10×2 = 20 marks)

01. What is ketone bodies?
02. Comment on cellular respiration.
03. What are cytochromes?
04. Write a note on insulin and glucagon.
05. What are zymogens?
06. Comment on atomic theory.
07. What are free radicals?
08. Comment on atherosclerosis.
09. What are isotopes?
10. Write a note on the amphoteric nature of protein molecules.

PART- B

Answer any FOUR questions.

(4×10 = 40 marks)

11. Describe about fat soluble vitamins and their importance.
12. What are lipids? Describe.
13. Explain the role of pH in biological systems.
14. Describe the process of catabolism of nucleic acids.
15. Describe the process of electron transport and oxidative phosphorylation.
16. What are stabilizing interactions? Describe.

PART- C

Answer any TWO questions.

(2×20 = 40 marks)

17. Describe and discuss about the structure and functions of carbohydrates.
18. Write an essay on the future of biochemistry.
19. Form an essay on enzyme biochemistry.
20. Write an essay on the conformational changes of proteins and its importance.
