

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY & BIOTECH.

FIFTH SEMESTER – NOVEMBER 2009

Z 501 - BIOLOGY - III

Date & Time: 13/11/2009 / 9:00 - 12:00 Dept. No.

Max. : 100 Marks

PART A

Answer ALL questions

10 X 2 = 20marks

1. Define Genetics.
2. What is cistron?
3. What are multiple alleles?
4. Differentiate autosomes from allosomes.
5. Define the term excretion.
6. What are osmoregulators?
7. Comment on xerophthalmia.
8. What are homologous organs?
9. Mention any 4 vestigial organs in man.
10. Comment on *Oenothera lamarckiana*.

PART B

Answer any FOUR

4 X 10 = 40marks

11. Explain monohybrid cross.
12. Elucidate the ultrastructure of SAT-Chromosome.
13. Describe ABO blood group.
14. Explain osmoregulation in freshwater teleosts.
15. Write notes on water soluble vitamins.
16. Elaborate precipitin tests.

PART C

Answer any TWO

2 X 20 = 40marks

17. Write an essay on Darwinism.
18. Trace evidences from biochemistry in favour of theory of organic evolution.
19. Discuss sex determination in man.
20. Explain pituitary hormones and their role.
