

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2005-2006 & thereafter)

SUBJECT CODE: ZL/AC/GZ22

B. Sc. DEGREE EXAMINATION, APRIL 2007

BRANCH VI.A. – ADVANCED ZOOLOGY AND BIOTECHNOLOGY
SECOND SEMESTER

COURSE : ALLIED – CORE
PAPER : GENERAL ZOOLOGY – II

TIME : 2 ½ HOURS

MAX.MARKS : 100

SECTION – A

ANSWER ALL QUESTIONS :

(10 X 3 = 30)

1. **NAME THE CAUSATIVE ORGANISM OF THE FOLLOWING DISEASES.**
a) Typhoid b) Malaria c) Diphtheria
2. **DISTINGUISH BETWEEN**
a) Antigen and Antibody
b) Haemoglobin and oxyhaemoglobin
c) Chorio-vitelline placenta and Chorio-allantoic placenta.
3. **FILL IN THE BLANKS**
a) Tuberculosis is caused by _____
b) The muscular structure which initiates the heart beat in mammals is _____
c) The eggs which contain moderate amount of yolk is _____
d) The respiratory pigment which transports oxygen in the blood is _____
e) The symbol 'Rh' for Rh antigen stands for _____
f) ART stands for _____.
4. **STATE WHETHER TRUE OR FALSE**
a) Catla, Rohu and Mrigal are the major carps.
b) AIDS is transmitted by mosquito
c) Trypsin is a proteolytic enzyme.

- d) Blood platelets help in the transport of oxygen.
- e) A person with 'O' blood group is called universal recipient.
- f) The causative organism of Tetanus is *Clostridium tetani*.

5. **GIVE THE FUNCTION OF THE FOLLOWING.**

- a) Placenta b) Sinu Auricular node c) Salivary amylase
6. Differentiate Down's syndrome and Klinefelter's syndrome.
7. Give the Zoological names of three major carps.
8. Describe the mode of infection of *Entamoeba histolytica*.
9. Comment on induced ovulation.
10. Expand
- a) HIV b) DPT c) IVF

SECTION – B

ANSWER ANY FIVE QUESTIONS :

(5 X 6 = 30)

- 11. Give an account of the different types of eggs.
- 12. Give a detailed account of Diphtheria
- 13. Describe the regulation of heartbeat.
- 14. Explain the inheritance of Rh - factor.
- 15. Describe any one protozoan disease in detail.
- 16. What are the applications of induced ovulation?
- 17. Explain the life cycle of Silkworm.

SECTION – C

ANSWER ANY TWO QUESTIONS :

(2 X 20 = 40)

- 18. Describe the various types of placenta in mammals.
- 19. Explain in detail the transport of carbon dioxide.
- 20. Write an essay on any three bacterial diseases of man.
- 21. Give an account of blood groups and their significance.
