

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

SUBJECT CODE: ZL/MC/AB44

B. Sc. DEGREE EXAMINATION, APRIL 2009
BRANCH VI.A. – ADVANCED ZOOLOGY AND BIOTECHNOLOGY
FOURTH SEMESTER

COURSE : MAJOR – CORE
PAPER : ANIMAL BEHAVIOUR

TIME : 3 HOURS **MAX. MARKS: 100**

SECTION – A

ANSWER ALL QUESTIONS: (10 X 3 = 30)

1. Define a) Behaviour b) Altruism
2. Distinguish giving a suitable example for each a) Mimicry b) Camouflage
3. Give an example for each of the following
 - a) Parental care in Amphibia
 - b) Electrical communication
 - c) Caching
4. Distinguish Mutualism & Commensalism giving one example for each.
5. What are the following
 - a) Urohydrosis
 - b) Brood parasitism
 - c) Preening
6. Enlist any Three methods of studying animals in the wild.
7. What is Metacommunication? Highlight its significance.
8. What are Endorphins & Enkephalins?
9. Define FAP. Give any two examples.
10. Match the following
 - a) Konrad Lorenz - Honey bees
 - b) Karl Von Frisch - Conditional reflex
 - c) Ivan Pavlov - Imprinting

SECTION – B**ANSWER ANY FIVE QUESTIONS:****(5 X 6 = 30)**

11. Discuss the attributes of Play behaviour.
12. Describe Auditory communication with any four examples. Add a note on its advantages & disadvantages.
13. Define Learning. Describe any five forms of learning with suitable examples.
14. 'The Hypothalamus plays a vital role in feeding & drinking and reproductive behaviour' Justify.
15. Highlight the different forms of Interspecific Behaviour.
16. What is maintenance & related behaviour? Explain any five examples.
17. Briefly discuss communication in Honeybees.

SECTION – C**ANSWER ANY TWO QUESTIONS:****(2 X 20 = 40)**

18. Define Sociobiology. Describe social organization in primates.
19. Define Predation. Highlight the various hunting and capture methods & the various antipredator defense tactics.
20. Describe the causes of abnormal behaviour in wild animals, animals in zoo & domestic pets. Add a note on its prevention & cure.
21. Describe 'Sensory Worlds' in the context of vision, echolocation & thermoreceptors.
