

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2008 – 2009)

SUBJECT CODE: ZL/MC/AB64

B. Sc. DEGREE EXAMINATION APRIL 2011
BRANCH VI.A. ADVANCED ZOOLOGY & BIOTECHNOLOGY
SIXTH SEMESTER

COURSE : MAJOR CORE
PAPER : ANIMAL BEHAVIOUR
TIME : 3 HOURS **MAX. MARKS: 100**

SECTION – A

ANSWER ALL QUESTIONS : **(10 X 3 = 30)**

1. Highlight the contribution of the following ethologists in a sentence each
a) Konrad Lorenz b) Karl von Frisch c) Ivan Pavlov
2. Define Behaviour. Give its significance.
3. Give an example for a) FAP b) Motivation c) Sign Stimulus
4. Distinguish Sensitization & Habituation with an example.
5. What is Caching behaviour? Give any two examples.
6. What are a) Pheromones b) Releasers c) Primers
7. What are a) Opiates b) Endorphins
8. Match the following
a) Meissner's corpuscles - Deeper tissue
b) Grandry's corpuscles- Hairless portions of the skin
c) Pacinian corpuscles – Beaks of birds
9. What are the following a) Tapetum lucidum b) Echolocation
10. Define giving an example a) Homing behavior b) Catadromous migration

SECTION – B

ANSWER ANY FIVE QUESTIONS :

(5 X 6 = 30)

11. Highlight the methods of studying Behaviour in the wild.
12. Describe any three types of burrowing & three types of mud building constructions which shelter animals.
13. What is Communication? Describe Chemical communication. Add a note on its advantages & disadvantages.
14. What is Play behavior? Describe any two of the following: Solo play, Aggressive play , Social play.
15. Discuss the role of hormones in maternal behaviour & singing behaviour.
16. Discuss communication in Honey bees.
17. Briefly enumerate Neurotic disorders in man.

SECTION – C

ANSWER ANY TWO QUESTIONS :

(2 X 20 = 40)

18. With appropriate examples explain the concept of behavioural genetics.
19. Describe Social organization in Primates.
20. Define Learning. Describe the different forms of learning.
21. Define predation. Discuss the various hunting & capture methods & the various antipredator defence tactics.
