

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted from the academic year 2015 – 2016)

SUBJECT CODE: 15ZL/AC/GZ24

B. Sc. DEGREE EXAMINATION, APRIL 2016

BRANCH V.A. – PLANT BIOLOGY & PLANT BIOTECHNOLOGY
SECOND SEMESTER

COURSE : ALLIED – CORE
PAPER : GENERAL ZOOLOGY – II
TIME : 3 HOURS

MAX.MARKS: 100

SECTION – A

ANSWER ALL THE QUESTIONS

(10 x 3 = 30)

1. Fill in the blanks:

- a) In worker bee, the corbicula is otherwise called-----.
- b) ----- blood group is referred to as universal donor.
- c) ----- is the most primitive form of learning.
- d) The test tube babies are formed by -----.
- e) Genes located on Y-chromosome are called-----.
- f) Tilapia is well known for its parental care as it carries the young ones in its-- -----.

2. Differentiate between:

- a) Contagious and infectious
- b) Polyandry and polygyny
- c) Pheromones and hormones

3. State whether true or false

- a) *Apis indica* is the largest honey bee.
- b) AIDS is a disorder of cell-mediated immune system of the body.
- c) In frog development, the yolk plug is seen during gastrulation.
- d) Albinism is due to the absence of Carotene.
- e) *Aggression* is the most common and most serious behavior problem in dogs.
- f) Role of placenta is to protect embryo from external shock.

4. Name the causative agents of:

- a) Amoebic dysentery b) Elephantiasis c) Cholera

5. Give the functions of:

- a) Bee sting b) Barbels c) Y-chromosome

6. Expand the following:

- a) ART b) FAP c) COLD

7. Match the following:

- | | |
|----------------|------------------------|
| a) Swarm trap | 1) Bull elephants. |
| b) Cholera | 2) Skin colour in man. |
| c) Archenteron | 3) Royal disease |
| d) Mulattoes | 4) Bee keeping. |
| e) Hemophilia | 5) Gastrulation |
| f) Musth | 6) flies. |

8. Define:

- a) Nuptial flight b) Pisciculture c) Lethal genes

9. Name any three diseases spread by dipteran insects.

10 List down any three parasitic adaptations of Pin worm.

SECTION – B**ANSWER ANY FIVE QUESTIONS****(5 x 6 = 30)****(Draw diagrams wherever necessary)**

11. Explain briefly the different castes of honey bee.
12. Write a short account of malarial fever.
13. Enumerate the salient features of cleavage.
14. Write notes on Klinefelter's syndrome.
15. Explain the courtship behavior of insects.
16. Explain, how is the sex determined in human.
17. Classify the placenta based on histology.

SECTION – C**ANSWER ANY TWO QUESTIONS****(2 x 20 = 40)****(Draw diagrams wherever necessary)**

18. Write a detailed account of culture of Indian major carps.
19. Write an account on Hepatitis. Add a note on disease cycle.
20. Describe the different types of vertebrate eggs with examples.
21. Write an essay on animal association.
