STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086

(For Candidates admitted during the academic year 2019 - 2020 & thereafter)

SUBJECT CODE: 19ZL/AC/GZ24

B.Sc. DEGREE EXAMINATION - APRIL 2023

BRANCH V. A – PLANT BIOLOGY AND 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) The Golgi bodies of spermatid that undergo gradual regression and are discarded are called _____

b) _____ is the eating of faecal matter.

c) Fusion of male and female pronuclei is called _____

2. **Match the following**

a) Cotyledonary placenta	-	Rabbit
b) Zonary placenta	-	Sheep
c) Discoidal placenta	-	Dogs

3. **True or False**

a) Commensalism is a symbiotic relationship between two organisms where one organism is benefited from the other.

b) Mosquito is an endoparasite

c) Female *Hippocampus* exhibits parental care.

4. Define reproductive isolation.
5. Comment on lethal genes with example.
6. What are holandric genes?
7. Differentiate innate immunity from acquired immunity.
8. Draw the structure of an immunoglobulin.
9. Comment on the evolution exhibited by 'Flowers and pollinators'.
10. List the types of distribution in animals.

SECTION - B

Answer any FIVE questions **(5 x 6 = 30)**

11. Describe the process of oogenesis with a diagram.
12. Discuss the importance and applications of IVF.
13. Give an account on parental care in Vertebrates.
14. Explain mitochondrial inheritance with reference to Kearns Sayre Syndrome.

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15. Define autoimmunity and add a note on autoimmune disorder with examples,
16. Enumerate the different classes of antibody and their functions.
17. Describe the mode of dispersal of animals

SECTION - C

Answer any TWO questions **(2 x 20 = 40)**

18. Write an essay on 'foetal maternal relationship' on the bases of placentation in mammals.
19. Illustrate and explain the pattern of inheritance in the following: a) colour blindness b) ABO blood groups
20. Discuss in detail on the types, production, importance and ethical issues in relation to vaccines.
21. Give a detailed account on mimicry and colouration.

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