STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086
(For Candidates admitted during the academic year 2023 - 2024)

B.Sc. DEGREE EXAMINATION - APRIL 2024
BRANCH V. A – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
SECOND SEMESTER

COURSE : ALLIED CORE
PAPER : GENERAL ZOOLOGY – II
SUBJECT CODE : 23ZL/AC/GZ24
TIME : 3 HOURS MAX. MARKS: 100

Q. No.	SECTION A Answer all questions (10 x 2 = 20 marks)	CO	KL
1.	Write any two attributes of play behaviour.	CO1	K1
2.	What is meant by trial and error learning?	CO1	K1
3.	Give two examples of chromosomal aberrations.	CO1	K1
4.	Define parasitism.	CO1	K1
5.	'A mutation is a change in the DNA sequence of an organism' – True or False	CO1	K1
6.	Give an example for autosomal recessive inheritance.	CO1	K1
7.	'Acquired immunity is found in humans since birth' – True or False	CO1	K1
8.	Define hypersensitivity.	CO1	K1
9.	Recall the different types of mimicry in animals.	CO1	K1
10.	Give two examples of coevolution.	CO1	K1
Q. No.	**SECTION B** **Answer all questions (10 x 2 = 20 marks)**	**CO**	**KL**
11.	Comment on the changes in the cardiovascular system that are observed as a result of aging.	CO2	K2
12.	Write a short note on respiratory changes during exercise.	CO2	K2
13.	Distinguish between commensalism and mutualism.	CO2	K2
14.	Outline the steps involved during courtship behavior in birds.	CO2	K2
15.	Differentiate between X linked and Y linked pattern of inheritance.	CO2	K2

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16.	What are lethal genes?	CO2	K2
17.	Contrast humoral immunity with cell- mediated immunity.	CO2	K2
18.	Comment on Rheumatoid Arthritis.	CO2	K2
19.	What are the barriers to the dispersal of animals?	CO2	K2
20.	Highlight the significance of colouration in animals.	CO2	K2
Q. No.	**SECTION C** **Answer any two questions (2 x 10 = 20 marks)**	**CO**	**KL**
21.	Identify the adaptations for high altitude survival in animals.	CO3	K3
22.	Construct an essay on applications of stem cells.	CO3	K3
23.	Tabulate the National Immunisation Schedule (NIS) for infants, children and pregnant women.	CO3	K3
Q. No.	**SECTION D** **Answer any two questions (2 x 15 = 30 marks)**	**CO**	**KL**
24.	Analyse the X-linked recessive pattern of inheritance with Duchenne Muscular Dystrophy as an example.	CO4	K4
25.	Compare in detail the different classes of antibodies and their biological activity.	CO4	K4
26.	Elaborate on the different stages in human evolution.	CO4	K4
Q. No.	**SECTION E** **Answer any two questions (2 x 5 = 10 marks)**	**CO**	**KL**
27.	Discuss the significance of Bioluminescence.	CO5	K5
28.	Analyse the causes for abnormal behavior in animals.	CO5	K5
29.	‘Innate immunity is the body’s first line of defense’ – Justify.	CO5	K5

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