

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2025 – 2026)

B. Sc. DEGREE EXAMINATION, APRIL 2026
BRANCH V. A – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
SECOND SEMESTER

COURSE : ELECTIVE
PAPER : GENERAL ZOOLOGY II
SUBJECT CODE : 25ZL/ME/GZ22
TIME : 3 HOURS **MAX. MARKS: 100**

Q. No.	SECTION A Answer all questions (5 x 2 = 10 marks)	CO	KL
1.	Give an example for each of the following: a. Aposematic colouration b. Batesian mimicry	CO1	K1
2.	List any two changes that occur in blood during exercise.	CO1	K1
3.	Relate the following disorders with the pattern of inheritance: a. Duchenne Muscular Dystrophy b. Albinism	CO1	K1
4.	Describe the following terms: a. Edema b. Extravasation	CO1	K1
5.	Recall any two types of wool produced in India.	CO1	K1
Q. No.	SECTION B Answer all questions (5 x 3 = 15 marks)	CO	KL
6.	Enumerate the characteristics of FAP.	CO2	K2
7.	Highlight any three changes that occur in the gastrointestinal system as a result of aging.	CO2	K2
8.	Distinguish between autosomes and allosomes.	CO2	K2
9.	Relate the biological activity with the respective antibody class: a. Ability to Cross placenta b. Allergic response c. Found in secretions like Breast milk	CO2	K2
10.	Comment on the following terms: a. Sericulture b. Pisciculture c. Apiculture	CO2	K2
Q. No.	SECTION C Answer any two questions (2 x 10 = 20 marks)	CO	KL
11.	Describe the different types of coevolutionary relationships with suitable examples.	CO3	K3
12.	Examine the causative agent, symptoms, pathogenicity and control measures of Viral and Bacterial Pneumonia.	CO3	K3
13.	Provide an account of the morphology and social organisation of <i>Apis indica</i> .	CO3	K3
Q. No.	SECTION D Answer any two questions (2 x 20 = 40 marks)	CO	KL
14.	Explain in detail the mechanism underlying bioluminescence. Add a note on the types and significance with suitable examples.	CO4	K4
15.	What is Multiple Allelism? Explain with A,B,O blood groups in humans as an example.	CO4	K4

16.	Compare and contrast Humoral and Cell Mediated Immunity.	CO4	K4
Q. No.	SECTION E Answer any three questions (3 x 5 = 15 marks)	CO	KL
17.	'Kearns Sayre Syndrome is inherited from the mother always and not from the father.' Justify with a suitable explanation.	CO5	K5
18.	Briefly discuss the various adaptations to high altitudes.	CO5	K5
19.	Discuss the economic importance of Mammals with any five suitable examples.	CO5	K5
20.	Evaluate the functions and significance of Courtship behaviour.	CO5	K5
