

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

B. Sc. DEGREE EXAMINATION, APRIL 2026
BRANCH VIA. ADVANCED ZOOLOGY & BIOTECHNOLOGY
SECOND SEMESTER

COURSE : CORE
PAPER : CHORDATA
SUBJECT CODE : 25ZL/MC/CH24
TIME : 3 HOURS

MAX. MARKS: 100

Q. No.	SECTION A Answer all questions (5 x 2 = 10 marks)	CO	KL
1.	Recall the zoological name of the following: a) Sea Horse b) Flying Lizard	CO1	K1
2.	Name any two accessory respiratory organs in fish.	CO1	K1
3.	In which animal would you find claspers? What is their function?	CO1	K1
4.	Define neoteny.	CO1	K1
5.	Recall the names of any two flightless birds.	CO1	K1
Q. No.	SECTION B Answer all questions (5 x 3 = 15 marks)	CO	KL
6.	Why is <i>Balanoglossus</i> significant with respect to systematic position?	CO2	K2
7.	List any three characteristic features of Agnatha.	CO2	K2
8.	Distinguish between anadromous and catadromous migration.	CO2	K2
9.	Classify amphibians up to order level.	CO2	K2
10.	To which orders do the following mammals belong? a) Squirrel b) Tiger c) Whale	CO2	K2
Q. No.	SECTION C Answer any TWO questions. (2 x 10 = 20 marks)	CO	KL
11.	Give an account of parental care in any five amphibians. Add labelled diagrams.	CO3	K3
12.	Describe any three venomous and two non-venomous snakes of South India along with neat, labelled diagrams.	CO3	K3
13.	Write an essay on flying mammals and their adaptations. Draw neat, labelled diagrams.	CO3	K3
Q. No.	SECTION D Answer any TWO questions. (2 x 20 = 40 marks)	CO	KL
14.	Draw and describe the digestive system of <i>Amphioxus</i> . Explain the physiology of digestion.	CO4	K4
15.	Describe the structure and working of the heart of <i>Calotes versicolor</i> . Support your answer with suitable diagrams.	CO4	K4

16.	Discuss in detail the flight adaptations in birds. Add diagrams wherever necessary.	CO4	K4
Q. No.	SECTION E Answer any THREE questions. (3 x 5 = 15 marks)	CO	KL
17.	Compile the retrogressive changes that take place in Urochordates during metamorphosis.	CO5	K5
18.	Highlight any five characteristic features of fish.	CO5	K5
19.	Summarise the measures that can be taken to conserve sea turtles.	CO5	K5
20.	Draw and describe the quill feather. State its function.	CO5	K5
