

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

**B. Sc. DEGREE EXAMINATION APRIL 2026**  
**BRANCH VIA. ADVANCED ZOOLOGY & BIOTECHNOLOGY**  
**SIXTH SEMESTER**

**COURSE : MAJOR CORE**  
**PAPER : ECOLOGY**  
**SUBJECT CODE : 23ZL/MC/EC64**  
**TIME : 3 HOURS** **MAX. MARKS: 100**

<b>Q. No.</b>	<b>SECTION A</b> <b>Answer all questions</b> <b>(10 x 2 = 20 marks)</b>	<b>CO</b>	<b>KL</b>
1.	What are limiting factors?	CO1	K1
2.	What is natality?	CO1	K1
3.	What is meant by the pelagic zone?	CO1	K1
4.	Recall any two characteristics of grasslands.	CO1	K1
5.	List any two biotic factors.	CO1	K1
6.	Recall any two adaptations of deep sea animals.	CO1	K1
7.	What is biodiversity?	CO1	K1
8.	Recall the names of two biodiversity hotspots in India.	CO1	K1
9.	What is median and what is it used for?	CO1	K1
10.	How do tropical and temperate forests differ? Mention any two points of difference.	CO1	K1
<b>Q. No.</b>	<b>SECTION B</b> <b>Answer all questions</b> <b>(10 x 2 = 20 marks)</b>	<b>CO</b>	<b>KL</b>
11.	Highlight any two biological effects of light on terrestrial animals.	CO2	K2
12.	Why is temperature an important abiotic factor?	CO2	K2
13.	In terms of ecosystems, what does productivity mean?	CO2	K2
14.	State the Shelford's law of tolerance.	CO2	K2
15.	How are animals that live in deserts unique?	CO2	K2
16.	What is a biome?	CO2	K2
17.	List any two processes involved in the carbon cycle.	CO2	K2
18.	What is a sample?	CO2	K2
19.	Define mode.	CO2	K2
20.	What is a pie chart? What is it used for?	CO2	K2

<b>Q. No.</b>	<b>SECTION C</b> <b>Answer any TWO questions. (2 x 10 = 20 marks)</b>	<b>CO</b>	<b>KL</b>
21.	With the help of neat, labelled diagrams describe the water cycle and the oxygen cycle.	CO3	K3
22.	Describe the physico-chemical characteristics of estuarine systems.	CO3	K3
23.	Write an essay on Exobiology.	CO3	K3
<b>Q. No.</b>	<b>SECTION D</b> <b>Answer any TWO questions. (2 x 15 = 30 marks)</b>	<b>CO</b>	<b>KL</b>
24.	Discuss soil from the perspective of formation, profile, classification and properties.	CO4	K4
25.	Elucidate <i>in situ</i> conservation.	CO4	K4
26.	Elucidate the physico-chemical characteristics of fresh water ecosystems and briefly describe the biotic communities that inhabit freshwater ecosystems.	CO4	K4
<b>Q. No.</b>	<b>SECTION E</b> <b>Answer any TWO questions. (2 x 5 = 10 marks)</b>	<b>CO</b>	<b>KL</b>
27.	Highlight the characteristics of Shola forests.	CO5	K5
28.	Briefly describe any two wild mammals found in India.	CO5	K5
29.	Compare and contrast the bar graph with the histogram.	CO5	K5

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