

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086**  
**(For candidates admitted from the academic year 2011 – 2012)**

**SUBJECT CODE: 11ZL/ME/CB23**

**B. Sc. DEGREE EXAMINATION, APRIL 2012**  
**BRANCH VI.A. – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**  
**SECOND SEMESTER**

**COURSE : MAJOR –ELECTIVE**  
**PAPER : CONSERVATION BIOLOGY**  
**TIME : 3 HOURS** **MAX. MARKS: 100**

**SECTION – A**

**ANSWER ALL QUESTIONS:**

**(10 X 3 = 30)**

1. What is a biodiversity hotspot?
2. Define ecological succession.
3. Differentiate Extinct and Endangered, Vulnerable and Critical species.
4. Comment on Ecological imbalance.
5. What is speciation?
6. Define 'Species'
7. Differentiate Sanctuary from Biosphere Reserve.
8. Expand WWF, IUCN and FAO.
9. Define sustainable development.
10. Match the following

National park	-	Tiger Reserve
Biosphere Reserve	-	Vedanthangal
Zoo	-	Guindy
Sanctuary	-	Nilgiri
Bhitarkanika	-	Sea turtle
Sariska	-	Arignar Anna

**SECTION – B**

**ANSWER ANY FIVE QUESTIONS:**

**(5 X 6 = 30)**

11. Write an account on factors contributing to species richness.
12. Write a brief account on IUCN categories for Red Data Book.
13. Highlight the ecological implications of exotic species.
14. Enumerate the merits and demerits of Wild Life protection Act 1972.
15. List down points on the importance of conservation biology.
16. Explain the importance of Wildlife corridors.
17. Write an account on traditional ecological management practices.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS:**

**(2 X 20 = 40)**

18. Write an essay on natural and anthropogenic threats to Indian biodiversity.
19. Discuss elaborately the *Ex situ* and *In situ* Conservation strategies.
20. Write an essay on emerging challenges for sustainable development.
21. Discuss in detail the two major conservation projects in India (i) Project tiger (ii) Project Elephant.

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