STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 86

(For candidates admitted from the academic year 2019 - 2020)

B.Sc. DEGREE EXAMINATION, NOVEMBER - 2021

Branch V (A) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY

COURSE: MAJOR CORE TIME: 3 HOURS

PAPER : ECOLOGY AND ENVIRONMENTAL BIOTECHNOLOGY

SUBJECT CODE: 19BT/MC/EE54 MAX.MARKS: 100

SECTION – A

ANSWER THE FOLLOWING QUESTION

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I. Fill in the blanks:		$(9 \times 1 = 9 \text{ Marks})$	
1. The main cause behind the development of	vertical stratification is	·	
2. In India, water quality monitoring is done b	у		
3. The accumulation of DDT has decreased the population of bald head eagle because			
it			
4. If 4 species of <i>Leucas aspera</i> occur in 8 sample plots, out of total of 16 sample plots studied			
the abundance of <i>Leucas aspera</i> is	·		
5. The ecosystem which is known as "nursery	of sea" is	·	
6. Lead accumulates in of fi	shes.		
7. "Guardians of the coast" is the common name of forest.			
8. The first of EIA is			
9. Filtering water through a mass of roots to remove toxic substances is called			
II. Answer any <u>THREE</u> each with 50 words	\$	$(3 \times 3 = 9 \text{ Marks})$	
10. Periodicity	11. Homeostasis		
12. Ecological adaptations of xerophytes	13. Bioindicators		
SECTION B			
Answer any <u>TWO</u> of the following questions. Each answer should not exceed			
200 words. (Draw diagrams wherever neces	ssary)	$(4 \times 6 = 24 \text{ Marks})$	
14. Define Bioleaching. Give account on diffe	rent types of bioleaching	ıg.	
15. Describe Raunkaier's Biological Spectrum	1.		
16. Briefly discuss the stages in Environmental Risk Assessment.			
SECTION C			
Answer any <u>ONE</u> of the following questions. Each answer should not exceed			
1000 words. (Draw diagrams wherever nec	essary)	$(2 \times 20 = 40 \text{ Marks})$	

- 17. Describes the biotic components of an ecosystem with suitable examples from terrestrial and aquatic ecosystem.
- 18. Describe the types of Transect methods used to sample a population. Add a note on its advantages and disadvantages.