STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086 (For candidates admitted during the academic year 2015 – 2016 & thereafter)

SUBJECT CODE: 15BT/MC/EE54

B. Sc. DEGREE EXAMINATION, NOVEMBER 2019 BRANCH V (a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY FIFTH SEMESTER

PAPER TIME	: ECOLO	ECOLOGY AND ENVIRONMENT 3 HOURS			TAL BIOTECHNOLOGY MAX.MARKS:100	
	SECTION -A		(18x1=18 marks)			
I. CHOOSE	THE CORREC	CT ANSWI	ER:		(10x1=10)	
	ge of EIA is call					
a) miti	gation b) s	coping	c)reviewing	d) screening	e) reporting	
2) Phenology 1	refers to					
a) flori	stic composition	b)str	atification	c)periodicity		
	Forms					
				at of a total of 16	sample plots	
studied, the	abundance of Le	eucas asper	a is			
a) 0.50	,		c) 0.25	d) 0.75	*	
	-	-	•	ere is a gradual cl	nange in vegetation	
and in environ	mental condition					
′ 1			c) loop	, 1		
				e organism is call	ed	
a)biomagnifications b)bioaccur				c)bioleaching		
,	emediation	,	ocide			
				hich does not cau	ise	
• • •	ible damage to th		is called			
a) MA'		IOEC	c) MTC	d) TCCR	e) TLC	
			e specific gravity			
a) quar		ater	c) kerosene	d) soil	e) gasoline	
8) Lead accum						
	ey b) li		c) bones	d) fat	e) intestines	
9) The base lir	ne for Cryptophy					
a) 26%			c) 6%	d) 46 %	e) 13%	
10) The Bhopa			caused by the lea			
a) MT	Γ b) M	1FT	c) MIC	d) MDT	e) MTC	
II. TRUE/FA	LSE				(4x1=4)	
11) The aubata	anno dotacted be-	tha hiasars	on is called analy	to.		
			or is called analy	ie.		
	ration is seen in g	-	and stan in Dist-	A agaggment		
			ond step in Risk	Assessment.		
14) EIVIP 18 TH	e executive sumr	nary of EIA	١.			

III. MATCH THE FOLLOWING

(4x1=4)

15) Phanerophytes	6%
16) Chamaephytes	46%
17) Hemicryptophytes	9%
18) Therophytes	26%
	13%

IV. ANSWER ANY SIX IN 50 WORDS:

 $(6 \times 3=18)$

- 19) Density
- 20) Loop Method
- 21) Acute Toxicity
- 22) Biosensors
- 23) Stratification
- 24) Bioaccumulation
- 25) Risk Characterization
- 26) Scoping
- 27) Composite Sampling

SECTION - B

V. ANSWER ANY 4 OUT OF 6 QUESTIONS IN 200 WORDS EACH: (4 x 6=24)

- 28) Give an account of the biotransformation of DDT.
- 29) Write a short note on the point method of sampling.
- 30) Explain the phenomenon of biomagnification.
- 31) Trace the biodegradation of PCP using microbes.
- 32) Mention the strategies of phytoremediation.
- 33) Describe environmental quality monitoring of air.

SECTION - C

VII. ANSWER ANY 2 OUT OF 4 QUESTIONS IN 1000 WORDS EACH: (2 x 20=40)

- 34) Discuss the stages of EIA
- 35) Explain Raunkaier's Biological Spectrum.
- 36) Describe the process of Risk Assessment
- 37) Highlight the role of bioindicators in biomonitoring.
