STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI 600 086

B.SC. DEGREE: BRANCH V. A. PLAT BIOLOGY ANDD PLANT BIOTECHNOLOGY

CODE: 11BT/MC/TE 34 TAXONOMY OF ANGIOSPERMS AND ECONOMIC BOTANY

DURATION: 3 HOURS TOTAL MARKS: 100

Section A - Answer all the Questions (18 x 1 = 18 Marks)		
I. Fill up the following:		
1. Bentham and Hooker's system relations of the various groups of	of classification does not bring out the	
2. The term "Natural Order" is equiv	ralent to	
3. The standard size of the plant pres	s is	
4. Fabaceae is placed in the order		
II. Match the following:		
5. Saffron	(a) Linnaeus	
6. Species Plantarum	(b)Takhtajan	
7. Malus malus	(c) Crocus sativus	
8. Phylogenetic system	(d) Tautonym	
III. Say True or False:		
9. The commercial fibre is obtained from the species of <i>Corchorus</i>		
10. Asafoetida is a stem resin.		
11. Usually the members of Poaceae are herbs.		
12. The name of the scientist who first described the species follows the binomial.		
13. After mounting on herbarium she	eets, the plant specimens are subjected to drying.	
IV. Choose the right answer:		
14. The father of Botany is		
(a) Plato (b) Theophrastus	(c) Aristotle (d) Linnaeus	

15. The basic	unit of classification is	S	
(a) Species	(b) Genus (c) Fa	mily (d) Order	
16. Linnaeus i	used sexual characters	to classify the plants a	and the number of classes recognized is
(a) 21 (b) 22	(c) 23 (d) 24		
17. The useful	l part of zinger is		
(a) root	(b) bark	(c) rhizome (d) bu	lb
18. The fruit i	s a schizocarp which s	splits into two mericar	os in the famiy
(a) Apiaceae	(b) Acanthaceae	(c) Amaranthaceae	(d) Arecaceae
Answer any (6 out of 9 questions.		$(6 \ x \ 3 = 18 \ Marks)$
Write short n	notes on the following	; :	
19. Artificial s	system of classification	n	
20. Polynomia	al		
21. Importanc	e of herbaria		
22. Economic	importance of Rubiac	eeae	
23. Fruit type	of Cucurbitaceae		
24. ICBN			
25. Isotype			
26.Tannins			
27. Coir			
Section	<u>n B</u> – Answer any 4 o	ut of 6 questions to b	e answered in 200 words each.
		$(4 \times 6 = 24 \text{ Marks})$)
28. What are o	dichotomous keys? Ex	plain.	
29. What is T	ypification? Explain.		

30. Give an account on the Botanical Gardens of India.

31. Explain the distinguishing characters of the family Rutaceae.

- 32. Discuss the floral characters of the family Apiaceae.
- 33. Give the botanical aspects of any 3 Spices and Condiments.

Section C - Answer any 2 out of 4 questions to be answered in 1000 words each.

$$(2 \times 20 = 40 \text{ Marks})$$

- 34. How are Phanerogams classified by Bentham and Hooker? Discuss its merits and demerits.
- 35. Discuss in detail any 5 rules which are connected with the naming of plants.
- 36. Explain the techniques and uses of herbarium preparation.
- 37. Give the salient features with floral diagram and floral formula of the family Solanaceae. Discuss the economic importance of the family.