

M 8110

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Name	:		

VI Semester B.Sc. Degree (CCSS-Reg./Supple./Improv.)

Examination, May 2015

CORE COURSE IN BOTANY/PLANT SCIENCE
6B11 BOT/PLS: Diversity of Life 3-Angiosperm Systematics and Morphology

(2011 and Earlier Admn.)

Time: 3 Hours

Total Weightage: 30

Instruction: Draw diagrams wherever necessary.

SECTION - A

Answer all. (Questions in bunches of four; Each bunch carries a weightage of 1.)

- Choose the correct answer.
 - i) Inferior ovary is present in
 - a) Labiatae

- b) Anacardiaceae
- c) Rubiaceae d) Liliaceae
- ii) A specimen cited with original description other than the holotype
 - a) Lectotype

b) Isotype

c) Paratype

- d) Neotype
- iii) A phylogenetic system of classification is based on the
 - a) Number of sepals
- b) Floral parts
- c) Number of stamens
- d) Evolutionary principles
- iv) Leafless stem of onion which is produced to bear flowers is called
 - a) Floral axis

b) Scape

c) Peduncle

d) Rachis

- 2. State true or false.
 - i) Spirocyclic arrangement of floral parts is a primitive character.
 - ii) Anthers are dithecous in Malvaceae.
 - iii) Follicle is a dry dehiscent fruit.
 - iv) The Indian Royal Botanic garden is situated at Bangalore.

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3. Fill in the blanks.	The Same		
	cal classification is	No. 2 months and a contraction	
	tamens are		
The state of the s	eae belongs to the serie	Address of the Control of the Contro	
		VI Semester B.Sc. D	
4. Rearrange Column B	and C to match Column	nA	
han sold Anatava me	osolp BA-E still to y	TOLICO DILICO	
i) Scitamineae	Linnaeus	Annona	
ii) Aggregate fruit	Bicarpellatae	Inferior ovary	
iii) Species Plantarum	Apocarpous pistil	Polemoniales	O Dime
iv) Solanaceae	Labellum	Binomial nomenclature	
 Answer in one word of i) ICBN Gynostegium 	or in one sentence.		
iii) Name the order of	the family capparidacea	le	
iv) Phyllotaxy.			$(5 \times 1 = 5)$
	SECTION-	B scholar in	
Answerany four. (Differe	entiate the following. Eac	ch question carries a weightage	e of 1 .)
6. Acanthaceae and scro	phulariaceae.		
7. Berry and drupe.	isq/fo8lf ab		
- A - A - A - A - A - A - A - A - A - A			
8. Syngenesious and syr	nandrous condition.		
9. Synonym and syntype			
10. Ranales and malvales			
11. Monographs and flora.	 b) Scape. d) Flachis 		(4×1=4)
Monographo and nora.	SECTION - C		
Annuar and the Colored		lo termena en a sancterio 2. ()	
Answer any rive. (Short an	iswer questions. Each q	uestion carries a weightage of	1.)
12. What is OTU?			

13. Write the binomial of any two medicinal plants of apocynaceae.

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- 14. What is aestivation? Mention the types.
- 15. Comment on tautonym.
- 16. In which family resupination is found? Define it.
- 17. What is chemotaxonomy?
- 18. Define floral diagram.

 $(5 \times 1 = 5)$

SECTION - D

Answer any six. (Short essay questions. Each question carries a weightage of 2.)

- 19. What is placentation? Explain the different types.
- 20. With the help of diagram explain the spikelet inflorescence.
- 21. What is a herbarium? Explain the technique.
- 22. Discuss the role of anatomy in taxonomy.
- 23. The order umbellales is placed at the end of the sub class polypetalae. Justify.
- 24. Briefly explain typification.
- 25. Explain indented key and bracketed key.
- 26. Write the botanical name, family, morphology of useful part of any three pulses.

 $(6 \times 2 = 12)$

SECTION - E

Answer any one. (Long essay type questions. Each question carries a weightage of 4.)

- 27. Describe the different types of inflorescence.
- Give an account on natural system of classification. Comment on its merits and demerits.
- 29. Explain the characteristic features of the family asteraceae. Why it is considered as an advanced family? (1x4=4)