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- 23. With the help of diagram explain the nature of corolla in Papilionaceae.
- 24. Write a note on the merits of Bentham and Hooker's system of classification.
- 25. Give an account of tuber crops. Write the binomial, family and morphology of useful parts of three tuber crops you have studied.
- (Weightage: 6×2=12) 26. List out the primitive characters of Annonaceae.

(If to apartiple with series of SECTION - E. reweins front 2) Levil you rewent

Answer any one. (Long essay type questions; each carries weightage of 4)

- 27. Explain how fruits are classified, giving example and diagram for each.
- 28. With the help of diagrams write the salient features of Poaceae. Explain its position as the last family among Angiosperms.
- 29. Write the characteristic features of Asteraceae with the help of diagrams (Weightage: 1x4=4) and give reasons for its success in nature.

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K16U 2229

III Semester B.Sc. Degree (CCSS - Supple./Improv.) Examination, November 2016 COMPLEMENTARY COURSE IN BOTANY

3C03 BOT: Angiosperms, Morphological Variations, Systematics, Utility of Plants and Plant Pathology (2011 and Earlier Admissions)

Max. Weightage: 30 Time: 3 Hours

SECTION - A

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

- Choose the correct answer.
 - i) Which of the following is a racemose inflorescence?
 - a) Cyathium

b) Capitulum

c) Dichaesium

d) Hypanthodium

- ii) The fruit of Poaceae is,
 - a) Cypsela

b) Achene

c) Caryopsis

- d) Lomentum
- iii) Dumb-bell shaped stigma is a characteristic feature of
 - a) Solanaceae

b) Papilionaceae

c) Apocynaceae

- d) Rubiaceae
- iv) Which among the following is observed in Apiaceae?
 - a) Stylopodium

b) Swollen placenta

c) Hooded anther

d) Corona

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- 2. Write 'true or false'.
 - i) Plicate corolla is present in Solanaceae.
 - ii) Vinblastin is extracted from Rauvolfia.
 - iii) Drupe is a fleshy fruit.
 - iv) Kidney-shaped anther is a diagnostic character of Annonaceae.
- 3. Fill in the blanks.

i)	mechanism of pollination is found in Lamiaceae				
ii)	Gland dotted leaves are found in family.				
iii)) disease is caused by Piricularia oryzae.				
v)	The standard size of herbarium sheet is				

4. Match the following:

	each bun A carries a	; rup) (Beadanu	C
i)	Eleusine coracana	Euphorbiaceae	Fibre
ii)	Hevea braziliensis	Apocynaceae	Endosperm
iii)	Rauvolfia serpentina	Tiliaceae	Root
iv)	Corchorus capsularis	Poaceae	Latex

- 5. Answer in one word or in one sentence.
 - i) Capitulum.
 - ii) Sagittate anther.
 - iii) Lodicule.
 - iv) Hemicyclic arrangement.

(Weightage: $5 \times 1 = 5$)

SECTION - B

Answer any four. (Differentiate the following; Each carries a weightage of 1.)

- 6. Androecium in Annonaceae and Malvaceae.
- 7. Natural and phylogenetic system of classification.



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- Simple and aggregate fruit.
- 9. Axile and Parietal placentation.
- Spices and Pulses.
- 11. Ovary of Apocynaceae and Solanaceae. (Weightage: 4×1=4)

BE SECTION - C Details evillining enhanced. AS

Answer any five. (Short answer questions; Each carries a weightage of 1.)

- 12. What is an umbel? Name the family in which it forms a diagnostic character.
- 13. Define placentation. Is allowed by the least of the elliphic of the latest and the latest an
- 14. What is a herbarium?
- 15. Write the symptoms of Leaf mosaic of Tapioca.
- 16. What is obdiplostemonous androecium? Write the family in which it is observed.
- 17. What is resupination?
- 18. Write the binomial and family of Cotton and Indigo. (Weightage: $5 \times 1 = 5$)

SECTION-D

Answer any six. (Short essay questions; each carries weightage of 2.)

- 19. What are the salient features of Malvaceae?
- 20. Give an account of Multiple fruits with two examples.
- 21. Illustrate various types of adnation in Solanaceae.
- 22. Describe the structure of spikelet.