



24. Discuss the merits of Bentham and Hooker's system of classification.
25. Explain gynoecium in Solanaceae.
26. Write the causative organism, symptoms and control measures of quick wilt of Pepper. (6×2=12)

SECTION - E

Answer **any one**.

(Essay type questions; **Each** question carries a weightage of **4**).

27. Give an account on herbarium and herbarium techniques.
28. Explain the characteristic features of the family Orchidaceae. List out the advanced features of the family.
29. Write a detailed account of the different types of inflorescence. (1×4=4)



Reg. No. :

Name :

III Semester B.Sc. Degree (CCSS-Reg./Supple./Imp.)
Examination, November 2014
(2012 Admission Onwards)
COMPLEMENTARY COURSE IN BOTANY
3C03BOT : Angiosperms, Morphological Variations Systematics, Utility
of Plants and Plant Pathology

Time : 3 Hours

Total Weightage : 30

SECTION - A

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

1. Choose the correct answer :

i) Which one of these is a phylogenetic classification ?

- | | |
|-----------------------|----------------------|
| a) Bentham and Hooker | b) Engler and Prantl |
| c) Linnaeus | d) Whittaker |

ii) In Malvaceae the anthers are

- | | |
|---------------|-------------|
| a) Monotheous | b) Ditheous |
| c) Sagitate | d) None |

iii) The cotton fibre is obtained from

- | | |
|-----------|----------|
| a) Roots | b) Stem |
| c) Leaves | d) Seeds |

iv) The fruit of Gramineae is

- | | |
|--------------|-------------|
| a) Capsule | b) Cypsella |
| c) Caryopsis | d) Lomentum |



2. Write 'true' or 'false'.

- Capitulum is not a racemose inflorescence.
- The fruit of tomato is a berry.
- The useful part of clove is seed.
- The flower of Rubiaceae is epigynous.

3. Fill in the blanks.

- In Lamiaceae the stamens are _____
- Sagittate anthers are present in _____ family.
- A blue dye is obtained from the leaves of _____
- Causative organism of citrus canker _____

4. Match the following :

A	B	C
I) Cuminum cyminum	Euphorbiaceae	Drupe
II) Cocos nucifera	Apiaceae	Rhizome
III) Curcuma longa	Palmae	Root tuber
IV) Mannihot utilissima	Zingiberaceae	Seeds

5. Answer in **one** word or in **one** sentence :

- Name the family with citrus fruits.
- Placentation.
- Give the binomial of jute.
- Floral diagram.

(5×1=5)

SECTION – B

Answer **any four**.

(Differentiate the following; **Each** question carries a weightage of 1).

- Ray floret and disc floret.
- Wilt and rot.
- Apocarpous and syncarpous pistil.



9. Simple fruit and multiple fruit.

10. Synandrous and syngenesious.

11. Artificial and phylogenetic system of classification.

(4×1=4)

SECTION – C

Answer **any five**.

(Short answer questions; **Each** question carries a weightage of 1).

12. State the botanical name, family and morphology of useful part of black gram.

13. Describe the inflorescence of Euphorbiaceae.

14. What are the symptoms of leaf mosaic of tapioca ?

15. Write the floral formula for a typical Rubiaceae flower.

16. Describe the androecium Annonaceae.

17. What is cremocarp ?

18. Explain binomial nomenclature.

(5×1=5)

SECTION – D

Answer **any six**.

(Short answer questions; **Each** question carries a weightage of 2).

19. Describe the inflorescence of Poaceae.

20. List out the advanced characters of Asteraceae.

21. What is aestivation ? Explain aestivation in the corolla of Papilionaceae.

22. Describe the corolla of Lamiaceae.

23. Write the botanical name, family and morphology of useful part of tea and Vinca.