



K18U 1879

Reg. No. : .....

Name : .....

III Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)  
Examination, November 2018  
(2014 Admn. Onwards)

COMPLEMENTARY COURSE IN BOTANY/PLANT SCIENCE  
3C03 BOT/PLS : Angiosperms – Morphology, Systematics, Utility,  
Plant Breeding and Plant Pathology

Time : 3 Hours

Total Marks : 32

SECTION – A

Answer all.

- In Rutaceae the fruit is a
  - Pepo
  - Drupe
  - Capsule
  - Hesperidium
- Actinomorphic and spirocyclic flowers are present in
  - Annonaceae
  - Orchidaceae
  - Apiaceae
  - Rubiaceae
- The unorganized mass of cells produced in tissue culture is called
  - Somatic hybrid
  - Synthetic seed
  - Callus
  - Explants
- The useful part of Colocasia is
  - Root tuber
  - Stem tuber
  - Adventitious roots
  - Tap roots
- The causative organism of Grey leaf spot of coconut is
  - Ustilago triticii*
  - Pestalotia palmarum*
  - Phytophthora palmivora*
  - Puccinia graminis*

(5×1=5)

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K18U 1879



SECTION – B

Answer **any four**.

6. What is placentation ? Mention any four types with examples.
7. Describe the corolla of Labiatae.
8. List out the advanced characters of Poaceae.
9. Write down the symptoms of Blast disease of paddy.
10. Explain androecium of Malvaceae.
11. Give the binomial, family and the morphology of useful part of Coffee. (4×2=8)

SECTION – C

Answer **any three**.

12. Write the causative organism, symptoms and control measures of Citrus canker.
13. Why is Asteraceae regarded as the most advanced family among dicots ?
14. Write notes on adnation in Solanaceae.
15. Explain the gynoecium and nature of fruit of Apiaceae.
16. Discuss the techniques involved in the making of the herbarium. (3×3=9)

SECTION – D

Answer **any two**.

17. What is meant by plant selection ? Differentiate mass selection and pure line selection.
18. Discuss the different types of simple fruits with suitable examples.
19. Compare and contrast the sub-families of Leguminosae. Mention the binomials of any two pulses.
20. Give a brief account on the types of angiosperm classification. Discuss the merits and demerits of the most accepted classification. (2×5=10)