

19001710



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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, JUNE 2019

Second Semester

Faculty of Science

Branch VI—Botany

PC 7—PLANT ANATOMY AND PRINCIPLES OF ANGIOSPERM SYSTEMATICS

(2012 Admission onwards)

Time : Three Hours

Maximum Weight : 30

I. Answer any *six* of the following in not less than 50 words (weight 1 each) :

- 1 What are multilacunar nodes ?
- 2 Explain Parallelism.
- 3 What is Cladogram ?
- 4 Comment on the concept of species.
- 5 Explain Plesiomorphic characters.
- 6 Explain Apomorphic characters.
- 7 Describe the rule of priority.
- 8 Explain the changes in the shoot apex during leaf development.

(6 × 1 = 6)

II. Answer any *seven* of the following in not less than 100 words (weight 2 each) :

- 9 Give an account of the floral Vasculature.
- 10 Write notes on Phylogenetic tree.
- 11 What are the major factors affecting cambial activity ?
- 12 Mention the chemical properties of wood.
- 13 Explain Barcoding.
- 14 Mention the basic concepts of genome analysis.
- 15 Mention the application of anatomy in plant systematics.
- 16 Describe the distribution structure and commercial importance of cotton.
- 17 Explain the development of epigynous ovary.
- 18 Explain leaf abscission.

(7 × 2 = 14)

Turn over





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III. Answer any *two* of the following in not less than 250 words (weight 5 each) :

- 19 Briefly explain the structure, development and classification of trichomes.
- 20 Give a brief account of the research prospects in plant anatomy.
- 21 Critically evaluate the phenetic and cladistic approaches in plant systematics.

(2 × 5 = 10)

