



**B.Sc. (Semester - V) Examination, October/November 2016**  
**BOTANY (Paper - IX)**  
**(Systematics of Angiosperms)**

Duration : 2 Hours

Max. Marks : 80

- Instructions :** 1) **All questions are compulsory, however internal choice is available.**  
2) **Briefly answer sub-questions in question 1 and question 2.**  
3) **Figures to the right indicate maximum marks to the question/ sub question.**  
4) **Draw appropriate labeled diagrams wherever necessary.**

1. Answer **any four** of the following :

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- What do you mean by plant systematics ? Give any two objectives.
- Write the botanical name and uses of any one plant belonging to family Apocynaceae.
- Describe the role of herbarium specimens in herbaria.
- Write a note on Cladistics and its applications.
- Site examples for cytology as a supporting evidence for taxonomy.
- What do you mean by Typification ?

2. Answer **any four** of the following :

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- Describe Flora with its features and name any two Floras.
- Define identification and its importance in Taxonomy.
- Write in short distinct features of Annonaceae family.
- What is the role of journals in Taxonomic documentation ?
- Comment on Syntype and Paratype.
- Describe Gynostagium.



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3. A) With respect to Capparidaceae give a brief description of inflorescence, flower and floral diagram. 6
- OR
- A) Describe various ranks in taxonomic hierarchy and their distinct features. 6
- B) Write a note on "Origin of Angiosperms". 6
4. A) Comment on the value of computers and databases for identification. 6
- OR
- A) What is Disciflorae ? Give the distinguishing characters of any one family included in the group. 6
- B) Write a note on Nomenclature and rules followed in naming plants. 6
5. A) Write the botanical name of Bottle brush and assign it to its systematic positions giving reasons. 6
- OR
- A) Explain the contribution of embryology as evidences in the field of taxonomical studies. 6
- B) Describe the salient features of Cronquist's system of classification. 6
6. A) Give the comparative account of Orchidaceae and Zinziberaceae with reference to their Floral characters. 6
- OR
- A) What are keys ? Describe single access and multiaccess keys. 6
- B) What are Botanical gardens ? Explain the various roles played by Botanical gardens. 6