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**BSCBOC 355**

**Credit Based VI Semester B.Sc. Examination, April/May 2017  
(Semester Scheme) (2016-17 Batch onwards)**

**BOTANY**

**Taxonomy and Economic Botany**

Time : 3 Hours

Max. Marks : 80

- Instructions :** 1) Answer Part – A and Part – B.  
2) Answer **four full** questions from Part – B.  
3) Draw diagrams **wherever** necessary.  
4) **All** questions in Part – B carry **equal** marks.

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

(2×10=20)

- i) Define chemotaxonomy with two example.
- ii) Mention two demerits of phylogenetic system of classification.
- iii) What is lomentum ? In which family it is found ?
- iv) Explain syngenechous condition with an example.
- v) What is gynostegium ? Where it is found ?
- vi) Obliquely oriented carpel is characteristically found in which family ? Draw the T.S. of ovary of that family.
- vii) What is coloumn ? Mention the family in which it is found.
- viii) What is Regma ? In which family it is found ?
- ix) What are lodicules ? Where it is found ?
- x) What is Bagasse ? Mention one use of it.
- xi) Give any two economic importance of coir.
- xii) Write the botanical name, family and part used of clove.

P.T.O.



PART - B  
Unit - I

2. a) Discuss the importance of national and regional herbaria with one example each. 4  
 b) Explain the androecium in **Brassicaceae**. 4  
 c) Compare **Caesalpinoideae** and **Mimosoideae**. 7

OR

3. a) Write a note on APG system of classification. 3  
 b) What is Tendril? Discuss about its morphology in **Cucurbitaceae**. 5  
 c) Give the diagnostic features of **Myrtaceae**. Mention the botanical names of two examples. 7

Unit - II

4. a) Describe the inflorescence in **Lamiaceae**. 4  
 b) Give any four important characters of **Rubiaceae**. 4  
 c) Bring out the differences between **Acanthaceae** and **Verbenaceae**. 7

OR

5. a) Describe the androecium and gynoecium in **Apocyanaceae**. 3  
 b) List any five diagnostic characters of **Convolvulaceae**. 5  
 c) Write the important characters of **Asteraceae** and give the botanical names of two examples. 7

Unit - III

6. a) Describe the inflorescence in **Moraceae**. 4  
 b) Write the botanical names of the four examples of **Euphorbiaceae**. 4  
 c) Compare the two families **Musaceae** and **Zingiberaceae**. 7

OR

7. a) What is Rostellum? Mention its significance. 3  
 b) List five important characters of **Amaranthaceae**. 5  
 c) Describe the inflorescence in **Arecaceae** and **Poaceae**. 7



**Unit – IV**

- 8. a) Write the botanical name, family and part used of sunflower and cotton. 4
- b) Explain cereals and millets with two examples each. 4
- c) What are beverages ? Give an account of processing of any one of it. 7

OR

- 9. a) Define Ethnobotany and mention its significance. 3
- b) Write the botanical name and family of five timber yielding plants. 5
- c) Write botanical name, part used of four medicinal plants : 7
  - i) Madhunashini
  - ii) Ashwagandha
  - iii) Kasaraka
  - iv) Nithyapushpa.