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BSCBOC 281

**Choice Based Credit System Fourth Semester B.Sc.
Examination, September 2022
BOTANY
Taxonomy and Economic Botany
(2020-2021 Batch Onwards)**

Time : 3 Hours

Max. Marks : 80

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

PART – A

1. Answer **any ten** of the following : **(10×2=20)**
- i) Name the system of classification proposed by Linnaeus. Mention one demerit of it.
 - ii) What is Binomial nomenclature ? Give an example.
 - iii) Define Chemo-taxonomy. Mention one of its significance.
 - iv) Give any two examples with their botanical names of family Anacardeaceae.
 - v) What is apocarpous pistil ? In which family it is found ?
 - vi) Define cremocarp. In which family it is found ?
 - vii) Mention any four medicinal plants of Lamiaceae.
 - viii) What is meant by resupination ?
 - ix) Define inter and intra petiolar stipules.
 - x) List out two timber yielding plants with their botanical name.

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- xi) Write any two differences between major and minor cereals, give one example each .
- xii) Write the botanical name, family and one use of Mung bean.

PART – B

Unit – I

2. a) Write a note on ICBN. **4**
- b) Mention the functions and significance botanical gardens. **4**
- c) Explain Bentham and Hooker system of classification with a note on its merits and demerits. **7**

OR

3. a) Write a note on DNA barcoding in plants. **3**
- b) What is herbarium ? Explain herbarium techniques. **5**
- c) Explain Engler and Prantl system of classification. **7**

Unit – II

4. a) Write a note on characteristic fruit in Rutaceae with neat labelled diagram. **4**
- b) Explain corolla in Papilionoideae. **4**
- c) Give the diagnostic features of Malvaceae, mentioning the botanical names of two examples. **7**

OR

5. a) Write a note on Inflorescence of Myrtaceae. **3**
- b) Discuss any five vegetable crops of Cucurbitaceae with their botanical names and uses. **5**
- c) Discuss the diagnostic features of Caesalpinioideae, mentioning the botanical names of two economically important plants of it. **7**



Unit – III

6. a) Explain characteristic inflorescence of Euphorbiaceae. **4**
b) Explain head inflorescence in detail. **4**
c) Describe distinguishing features of Solanaceae. Mention the botanical names of two economically important plants of it. **7**

OR

7. a) Write a note on leafy vegetables of Amaranthaceae. **3**
b) Explain inflorescence of Poaceae. **5**
c) Give an account on family Arecaceae with its salient features and mention two examples with their botanical names. **7**

Unit – IV

8. a) Write an account on outdoor and indoor ornamental plants. **4**
b) Explain the processing of Hevea rubber. **4**
c) Give an account on spices and condiments. **7**

OR

9. a) Define Ethnobotany and mention its significance. **3**
b) Write the botany of any three medicinal plants which you have studied. **5**
c) What are beverages ? Give an account on processing of coffee. **7**
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