

(i) Printed Pages : 3

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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B.A./B.Sc. (General) 4th Semester

(2042)

BOTANY

Paper—A : Diversity of Seed Plants and their Systematics-II

Time Allowed : Three Hours]

[Maximum Marks : 36

Note :— (1) Attempt **five** questions in all, selecting **one** question each from Units I, II, III and IV.

(2) Question No. 1 is compulsory.

(3) Draw diagrams where necessary.

1. (a) Multiple choice questions : Pick up the correct choice.

(i) Linnaeus was a _____ scientist :

(a) English

(b) Greek

(c) Swedish

(d) None of the above

(ii) The number of orders recognised by Bentham and Hooker in dicotyledons :

(a) 34

(b) 35

(c) 165

(d) 166

(iii) Bimerous flowers are found in which of the following ?

(a) *Brassica*

(b) *Calotropis*

(c) *Solanum*

(d) *Hibiscus*

(iv) In lateral flowers the mother axis lies towards the _____ side :

(a) Anterior

(b) Antero-posterior

(c) Posterior

(d) Diagonal

(b) Fill in the blanks :

(v) Lodicules are found in family _____.

(vi) Gynobasic style is the characteristic feature of family _____.

(vii) _____ is a type specimen, which was used by workers when the original specimen is destroyed.

(viii) Ovary is obliquely placed in the family _____.

1×8=8

UNIT-I

2. Write notes on :

(a) Merits and demerits of Bentham and Hooker's system of classification

(b) Taxonomic ranks

2×3½

3. (a) Discuss the general characters of Angiosperms in brief.

(b) Write a note on Principles of priority.

2×3½

UNIT-II

4. Write the diagnostic features of following families :

(a) Liliaceae

(b) Ranunculaceae

2×3½

5. Explain the following terms with example :

- (i) Epicalyx
- (ii) Imperfect flower
- (iii) Polyadelphous
- (iv) Thallamus
- (v) Perigynous flower
- (vi) Didynamous
- (vii) Placentation.

1×7=7

UNIT-III

6. Compare :

(a) Androecium of *Citrus* and *Hibiscus*

(b) Corolla of *Lathyrus* and *Coriandrum*

2×3½

7. Write floral formula and draw floral diagram of the following :

(a) *Cassia*

(b) *Murraya*

2×3½

UNIT-IV

8. Discuss :

(a) Inflorescence of family Lamiaceae

(b) Diagnostic features of family Solanaceae

2×3½

9. (a) Describe the Flower of *Ageratum*

(b) Write the floral formula of *Calotropis*.

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