

(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) 4<sup>th</sup> Semester  
(2054)**

**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, IV.

(2) Question No. 1 is compulsory.

(3) Draw diagrams where necessary.

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

(i) Basic unit of taxonomic studies is :

(a) Species (b) Genera

(c) Family (d) Order

(ii) It is the specimen from the locality at which the type specimen was first collected :

(a) Syntype (b) Holotype

(c) Topotype (d) Lectotype

(iii) Heteromerae is the series of :

- (a) Polypetalae                      (b) Gamopetalae  
(c) Monochlamydae                (d) Monocotyledons

(iv) Which of the following plant contains a watery pungent sap and smell like sulphur ?

- (a) *Brassica*                        (b) *Citrus*  
(c) *Solanum*                        (d) *Ranunculus*

(B) Fill in the blanks :

(v) Obliquely placed ovary is found in family \_\_\_\_\_.

(vi) The common name of Chenopodiaceae family is \_\_\_\_\_.

(vii) The term is used for stamens, where filament is attached at the back of the anther and anther can swing freely \_\_\_\_\_.

(viii) Larkspur is the common name of \_\_\_\_\_.  $1 \times 8 = 8$

### UNIT—I

2. (a) Write a short note on Taxonomic ranks.  
(b) Give a brief account of Bentham and Hooker's classification.

3,4

3. Write notes on :

(a) Principle of priority

(b) Type concept.

3,4

## UNIT—II

4. (a) Discuss the following terms :  
Staminodes, Imbricate aestivation, Didynamous
- (b) Write floral formula of *Triticum* and *Delphinium*. 3,4
5. Write floral formula and draw floral diagram of the following :
- (a) *Ranunculus*
- (b) *Asparagus*. 3½,3½

## UNIT—III

6. (a) Compare Androecium of Kikar and Sweet Pea.
- (b) Give the Diagnostic features of family Apiaceae. 3,4
7. Describe :
- (a) Androecium and Gynoecium of *Citrus*
- (b) Flower of *Hibiscus*. 3,4

## UNIT—IV

8. (a) Compare Gynoecium of *Solanum* and *Ocimum*.
- (b) Describe Ray and Disc florets of *Helianthus*. 3,4
9. (a) Write floral formula and draw floral diagram of *Chenopodium*.
- (b) Discuss the diagnostic features of Milk Weed Family. 3,4