

(i) Printed Pages: 4]

Roll No. ....

(ii) Questions : 9]

Sub. Code : 

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Exam. Code : 

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**B.A./B.Sc. (General) IV Semester  
Examination**

**1047**

**BOTANY**

**Paper : A (Diversity of Seed Plants  
and their Systematics-II)**

**Time : 3 Hours]**

**[Max. Marks : 36**

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**Note :-** Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is compulsory. All questions carry equal marks. Draw diagrams where necessary.

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

(i) Amaltas is the common name of :

(a) *Delonix* (b) *Saraca*

(c) *Cassia* (d) *Petunia*

(ii) When filament is attached to the base of anther, it is known as :

- (a) Basifixed                      (b) Adnate  
(c) Dorsifixed                    (d) Versatile

(iii) When one margin of petal overlap regularly with another, the aestivation is known as :

- (a) Open                            (b) Valvate  
(c) Twisted                        (d) Imbricate

(iv) When stamens are indefinite and free :

- (a) Polyadelphous                (b) Syngenesious  
(c) Synandrous                    (d) Polyandrous

(v) Cruciform corolla is the feature of family :

- (a) Brassicaceae                  (b) Solanaceae  
(c) Fabaceae                        (d) Rutaceae

(B) Fill in the blanks :

(i) Gynobasic style is present in .....

(ii) Out of four stamens in a flower, two are long and two are short, the condition is known as .....

(iii) Monothealous anthers are present in family .....

(iv) Papilionaceous corolla is present in family

..... .

(v) A flower with bilateral symmetry is known

as .....

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### Unit-I

2. Define the following terms :

Isotype, Paratype and Topotype

2,2,2

3. What is Bentham and Hooker's system of classification ? Give its merits and demerits.

3,3

### Unit-II

4. Describe the distinguishing features of family gramineae and Brassicaceae.

3,3

5. Draw floral diagram of the following flowers :

(a) Asphodelus

(b) Ranunculus

3,3

### Unit-III

6. Give the diagnostic features of family Fabaceae and Umbelliferae.

3,3

7. Describe the androecium of Rutaceae and Malvaceae.

3,3

#### **Unit-IV**

8. Give the diagnostic features of family Labiatae and  
Chenopodiaceae. 3,3
9. Give floral formula of three flowers i.e. Helianthus,  
Calotropis and Solanum 2,2,2