

(i) Printed Pages: 2

Roll No.

(ii) Questions : 9

Sub. Code :

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Exam. Code :

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

1059

BOTANY

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

Time Allowed : Three Hours]

[Maximum Marks : 36

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

1. (A) Multiple choice question. Pick the correct answer.

(i) Family Ranunculaceae is commonly known as :

- (a) Lily family (b) Grass family
(c) Butter cup family (d) Pea family

(ii) Awn in the flower of wheat is the prolongation of midrib of :

- (a) Lemma (b) Palea
(c) Lodicules (d) Glumes

(iii) Spur is formed in the flower of :

- (a) BRASSICA (b) HIBISCUS
(c) PEA (d) DELPHINIUM

(iv) Epicalyx is present in family :

- (a) RUTACEAE (b) MALVACEAE
(c) LABIATAE (d) LILIACEAE

(v) Cymose head inflorescence is present in :

- (a) MURRAYA (b) TRITICUM
(c) BRASSICA (d) ACACIA

(vi) Largest family of the flowering plants is :

- (a) ASTERACEAE (b) LABIATAE
(c) SOLANACEAE (d) FABACEAE

6×1=6

(B) Fill in the blanks :

- (i) Gynobasic style is present in family _____.
- (ii) Corolla is _____ in LATHYRUS.
- (iii) Perianth of TRITICUM is called _____.
- (iv) Stamens are fused by anthers only, but filaments are free, the term used for it is _____.
- (v) Ovary is obliquely placed in family _____.
- (vi) Stylopodium is the feature of _____ flower.

6×1=6

UNIT—I

- 2. What is plant nomenclature ? Give its principles and rules. 6
- 3. Give a brief account of Benthem and Hooker's system of classification. 6

UNIT—II

- 4. Define the following terms :
Mother axis, aestivation, synandrous, tetradynamous stamens, perianth and zygomorphic. 6×1=6
- 5. Give diagnostic features of RANUNCULACEAE and POACEAE. 3,3

UNIT—III

- 6. Compare the androecium of CITRUS and HIBISCUS. 6
- 7. Draw floral diagram and write floral formula of :
(a) CASSIA
(b) CORIANDRUM. 3,3

UNIT—IV

- 8. Compare the gynoecium of PETUNIA and OCIMUM. 6
- 9. Give diagnostic feature of the following families :
(a) CHENOPODIACEAE
(b) ASCLEPIADACEAE. 3,3