

Roll No.

Total Pages : 4

11460/NH**BS/2111****DIVERSITY AND SYSTEMATICS OF
ANGIOSPERMS**

Paper–VI

Semester–III

Time Allowed : 3 Hours] [Maximum Marks : 40

Note : The candidates are required to attempt **two** questions each from Sections A and B carrying 6 marks each and the entire Section C consisting of 8 short answer type questions carrying 2 marks each.

SECTION—A

1. What is the criteria used for the concept of primitive and advanced characters in Angiosperms? Explain using relevant examples. 6
2. (a) Write a note on Beta (β) taxonomy. 3
(b) Describe the most accepted concept of origin of Flowering plants. 3
3. Name the recent code proposed for Nomenclature of Plants. Elaborate its principles and rules. Comment on the concept of type. 6
4. Write explanatory notes on the following :
(a) Aims of Taxonomy. 3
(b) Type concept. 3

SECTION—B

5. Discuss the salient features, merits and demerits of Bentham and Hooker's classification system. 6

6. Write down the diagnostic features of family *Bassicaceae*. Describe it in technical terms. 6
7. Describe the family *Asteraceae* in technical terms. Comment on its Taxonomic significance. 6
8. Discuss the floral characters of family *Poaceae* in technical terms. Draw the vertical section of flower and floral diagram based on a relevant example of the family.

SECTION—C

9. Write short notes on the following : 8×2=16
- (i) What is Alpha taxonomy?
- (ii) Define Identification key. Eleborate its types.
- (iii) What do you mean by Taxonomic rank?
- (iv) Describe the Androecium of family *Malvaceae*.
- (v) What is Gynostegium? Give an example.

- (vi) Compare the Gynoecium of *Solanaceae* with that of *Liliaceae*.
- (vii) Comment on the type of inflorescence in family *Apiaceae*.
- (viii) What do you mean by Papillionaceous corolla?