

Roll No.

41211**B. Sc. (Pass Course) 4th Semester****Examination – May, 2019****BOTANY - I (BIOLOGY & DIVERSITY OF SEED
PLANTS - II)****Paper : BOT 4.1****Time : Three hours] [Maximum Marks : 40**

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

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

1. (a) What are HOLOTYPE specimens ? 1
- (b) Define CHEMOTAXONOMY. 1
- (c) BUTTERFLY - shaped irregular corolla is characteristic feature of..... family. 1
- (d) Define an EFFECTIVE publication. 1

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- (e) What is a TAXON ? 1
- (f) Define a TRANSLATOR 1
- (g)ANDROECIUM occurs in DISC FLORETS of ASTERACEAE. 1
- (h)type of PLACENTATION is found in LILIACEAE. 1

UNIT – I

2. What are the KEYS of IDENTIFICATION ? Describe their types. 8
3. How CYTOLOGY has played an important role in TAXONOMY ? Explain with examples. 8

UNIT – II

4. Give merits and demerits of BENTHAM and HOOKER system of classification. 8
5. Describe with diagrams the types of INFLORESCENCE. 8

UNIT – III

6. Write short notes on :
 - (a) Androecium of LEGUMINOSAE 5
 - (b) Economic importance of MALVACEAE. 3

(2)

7. (a) Compare the floral diagrams
PAPILLIONATAE and MALVACEAE
(b) Write economic importance and diagnostic
features of EUPHORBIACEAE.

UNIT - IV

8. (a) Compare the GYNOECIUM in SOLANACEAE
and ASTERACEAE.
(b) Write a note on BILABIAL COROLLA.
9. (a) Give notes on ANDROECIUM of LILIACEAE
and APIACEAE.
(b) Give POLLINATION mechanism
LAMIACEAE.

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