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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

P. T. O.

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

UNIT - IV

- 8. (a) Compare the GYNOECEUM in SOLANACEAE and ASTERACEAE.
- (b) Write a note on BILABATE COROLLA.
- 9. (a) Give notes on ANDROECEUM of LILIACEAE and APIACEAE.
- (b) Give POLLINATION mechanism in LAMIACEAE.

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- (e) What is a TAXON ? 1
- (f) Define a TRANSLATOR 1
- (g)ANDROECEUM 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 : 5
 - (a) Androecium of LEGUMINOSAE 3
 - (b) Economic importance of MALVACEAE.

(2)

(3)