

FACULTY OF SCIENCE

B.Sc.II Year Examination March / April 2016

Subject: Botany

Paper- II : Anatomy, Embryology, Taxonomy and Medicinal Botany

Time: 3 hours

Max. Marks: 100

**Section: A (5 x 8=40)
(Short answer Questions)**

**Note: Answer any FIVE Questions. Attempt at least ONE Question from each unit.
Answer should not exceed 20 Lines for each question. Draw well labeled diagrams wherever necessary**

Unit-I

- 1 Histogen theory
- 2 Parenchyma

Unit-II

- 3 Helobial endosperm
- 4 NPC system

Unit-III

- 5 Angiosperm phylogeny group (APG)
- 6 Chemotaxonomy

Unit-IV

- 7 Ayush
- 8 Medicinal use of Tulasi

**Section: B (4 x 15=60)
(Essay Type Questions)**

**Note: Answer ALL Questions. Answer should not exceed 80 lines for each question.
Draw well labelled diagrams wherever necessary.**

- 9 (a) Define complex tissue. Describe the phloem elements and add a note on its functions.

OR

- (b) What is anomalous secondary growth? Explain the secondary growth in *Boerhaavia* stem.

- 10 (a) Write an essay on polyembryony and mention its significance.

OR

- (b) Discuss in detail about the Dicot embryo development in angiosperms.

- 11 (a) Give a general account on Bentham and Hooker's system of classification and mention its merits and demerits.

OR

- (b) Describe the flower structure and pollination mechanism in Orchidaceae.

- 12 (a) Write short note on pharmacogocgy and explain about adulteration of drugs.

OR

- (b) Discuss in detail about various method of collection processing of preserving of plant crude drugs.
