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PG (NEW) CBCS
M.Sc. Semester-II Examination, 2020
BOTANY
PAPER: BOT 203
(PLANT ANATOMY AND PHARMACOGNOSY)

Full Marks: 20

Time: 1 Hour

Answer any ONE question from each unit

UNIT-I (PLANT ANATOMY)

10 MARKS

1. Describe the ultrastructure of plant cell wall.
2. Mention different types of nodal anatomy found in Dicotyledonous plants.
3. Write down characteristics and utilities of salt gland and nectaries in plants.
4. Describe the different types of stomata according to Metchalfe and Chalk.
5. Describe the various types of laticifers found in plants and mention their significance.

UNIT-II (PHARMACOGNOSY)

10 MARKS

1. Briefly describe the Shikimic acid pathway in plants. Mention its importance.
2. Write schematically the biosynthetic pathway of Terpenoids. Give examples of some Terpenoids having pharmaceutical applications.
3. Write notes on “classification of crude drug”. Mention two active principles of Digitalis.
4. Describe the organoleptic, micro morphological and chemical characteristics of *Rauvolfia*. Mention its application in human health.
5. What are secondary metabolites? Mention different types of secondary metabolites found in plants and give their significance.
