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PG (NEW) CBCS
M.Sc. Semester-IV Examination, 2020
BOTANY
PAPER: BOT 495A
PRACTICAL
ANGIOPERM TAXONOMY & MOLECULAR SYSTEMATICS

Full Marks: 50

Time: 2 Hours

Answer any one question within 250 words.

1. Explain the role of identification 'Keys' in taxonomic studies. Write down the book used in identification of angiospermic taxa.
2. Describe the importance of Index Kewensis, dictionaries, manuals and bibliographies in taxonomic studies.
3. Describe the principle and procedure for comparative study of the starch grains found in different storage organs of angiosperms.
4. Describe the principle and procedure for comparative study of the stomata of different angiospermic taxa.
5. Discuss the principle and procedure for comparative study of dry fruit morphology of different angiospermic taxa.
6. Describe the principle and procedure for comparative study of different angiosperm ovules.
7. Write down the identifying characters of Lamiaceae. Mention the botanical names of two plant taxa belonging to this family.
8. Write down the identifying characters of Scrophulariaceae. Mention the scientific names of two plant taxa belonging to this family.
9. Write down the identifying characters of Malvaceae. Mention the scientific names of two plant taxa belonging to this family.
10. Write down the procedure of acetolysis technique regarding the pollen morphological study of angiosperms.
11. Write down the procedure of polyacrylamide gel electrophoresis for proteins. Write down different protein denaturing components used in this process.
12. Write down the methods of processing of plant specimens for herbarium.
