PG CBCS

M.SC. Semester-IV Examination, 2021

BOTANY
PAPER: BOT 402A
(ANGIOSPERM TAXONOMY)
Time: 2 Hours

## Answer any FOUR questions from the following:

$10 \times 2=20$

1. Define Phytogeograpgy. Who first classified phytogeographical Zones in India based on vegetation? Classify different phytogeographic zones with respect to dominating plants, rainfall and temperature. 2+1+7
2. Who coined the term 'Biodiversity'? Differentiate between $\alpha$ and $\beta$ diversity. Mention the different causes of biodiversity loss. What is hot spot? $1+3+4+2$
3. What is pollen bank? Briefly describe different strategies for ex situ conservation. Write about IUCN categories of threatened species. $2+5+3$
4. What is Paleoherb? What are the main differences between APG III and APG IV? Write a short note on phylogenetic relationship of Angiosperms. $\quad 2+4+4$
5. Define Serology. Write the role of Photochemistry in solving taxonomic problems giving at least two examples. $2+8$
6. What is phylocode? What is the basic difference between ICBN and ICN? Write a short note on Nomenclatural types. $2+3+5$
7. Name two internationally recognised herbarium with their acronym. What do you mean by monograph? Write a brief note on the role of botanical Survey of India (BSI) for taxonomic studies.

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3+2+5
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8. Write notes on :
a. Plesiomorphy and Apomorphy
b. Paraphyly and Polyphyly
c. Flora and Vegetation
d. Convergent and Divergent evolution
