

U.G. 4th Semester Examination - 2021

BOTANY

[HONOURS]

Course Code : BOT-H-CC-T-08

(Taxonomy of Angiosperms and Plant Systematic)

Full Marks : 20

Time : 1 Hour

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** of the following questions:

1×5=5

- Mention the contribution of Bessey in plant taxonomy.
- Define e-flora.
- Give example of a natural system of classification.
- What is acronym of CNH?
- Write down the full form of ICN.
- What do you mean by stenopalynous and eurypalynous character?

[Turn Over]

g) Name the families on the basis of following characters:

- Monadelphous stamen
- Verticillaster inflorescence

h) Name two economically important plants of Zingiberaceae.

2. Answer any **one** of the following questions:

5×1=5

- Define cytotaxonomy. Write down its role in plant taxonomy to solve the disputed problems. 2+3
- Discuss the functions of Botanical Garden. Give examples of two important herbaria of the world. 3+2
- Write a note on different phases of plant Taxonomy. 5

3. Answer any **one** of the following questions:

10×1=10

- Write a short note on APG III, 2009. Briefly describe the principles of Numerical Taxonomy. 5+5

- b) Define nomenclatural type. Explain briefly on different nomenclatural types cited in Code. Add a note on its importance. 2+6+2
- c) Explain the term 'monophyly', 'paraphyly' and 'polyphyly'. Explain the term 'parallelism and convergence' in terms of evolution. 6+4
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