

U.G. 4th Semester Examination - 2020

BOTANY**[HONOURS]**

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

Full Marks : 40

Time : 2½ Hours

*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 :

2×5=10

- What is artificial system of classification?
- What is omega taxonomy?
- Name an important herbarium of your state. Name the Botanical Garden attached to that.
- Define holotype.
- What contribution of Bauhins is still used in plant taxonomy?
- Define monograph.
- Write scientific names of two economically important plants of Poaceae.
- Write scientific names of two medicinally important plants of Solanaceae.

2. Answer any **two** of the following questions: 5×2=10

- Describe briefly how palynology has been used in taxonomy.
- What are the functions of an herbarium?
- Write briefly about the biological species concept.
- Who is known as 'Father of Botany'? Write his major contributions.

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

10×2=20

- Why do you think Cronquist's system of classification was phylogenetic? Describe briefly the classification of Bentham and Hooker (up to series). 3+7=10
- Write down different theories of origin of Angiosperms. 10
- What are the differences between phenogram and cladogram? Write briefly about the APG III system of classification. 4+6=10
- Write down the diagnostic features of Orchidaceae and Asteraceae. Mention one plant of each family. 4+4+1+1=10
