

B.Sc. 3rd Semester (Honours) Examination, 2018 (CBCS)

Subject : Botany

Paper : CC-VI

Time: 2 Hours

Full Marks: 40

*The figures in the margin indicate full 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
 - (a) What is OTU? What is the alternative name of Numerical taxonomy.
 - (b) What is systematics?
 - (c) Define E-flora. Give an example.
 - (d) What is 'Later Homonym'?
 - (e) What is the present name of Indian Botanic Garden?
 - (f) What is artificial system of classification? Give an example.
 - (g) What is APG system of classification?
 - (h) Define Biological species.

 2. Write short notes on (*any two*): 5×2=10
 - (a) Principles of ICN
 - (b) Write down the functions of herbaria.
 - (c) Define monophyly and polyphyly with proper diagrams. 2½+2½=5
 - (d) Write a short note on author's citation by explaining single author and multiple authors for a scientific name.

 3. Answer the following (*any two*): 10×2=20
 - (a) Describe the role of palynology and phytochemistry in studying systematics of angiosperms. 5+5=10
 - (b) Give an outline classification of Bentham and Hooker (1862-83) upto series. Point out the demerits of the classification. 7+3=10
 - (c) What is Nomenclatural type? Describe different Nomenclatural types with explanation. 2+8=10
 - (d) Define 'characters'. Differentiate between phenogram and cladogram. How characters are coded in Numerical Taxonomy? 2+3+5=10
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