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UG/2nd Sem/BOT/G/19

2019

B.Sc. (General)

2nd Semester Examination

BOTANY

Paper - DSC 1BT

Full Marks : 40

Time : 2 Hours

*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 questions of the following :

5×2=10

- (a) Define edge effect.
- (b) Write two differences between Food Chain and Food Web.
- (c) Define endemism.
- (d) What is meant by soil profile?
- (e) What is Holotype?

(2)

- (f) What is Natural system of classification? Give example.
- (g) What are OTUs?
- (h) What is neo endemism?

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

4×5=20

- (a) Write down the morphological and anatomical adaptations of hydrophytes. $2\frac{1}{2}+2\frac{1}{2}$
- (b) Explain the role of palynology in Taxonomy. 5
- (c) What is Botanical garden? Write the functions of Botanical gardens. 2+3
- (d) With schematic diagram explain in briefly the phosphorus cycle. 5
- (e) Define succession. Briefly explain the process of succession in plants. 1+4
- (f) Write the differences between phenogram and cladogram. 5

(3)

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

1×10=10

- (a) What is phylogenetic system of classification? Briefly describe Engler and Prantl's system of classification upto series. Write the merits and demerits of this classification. 1+6+1½+1½
- (b) Write the principles of ICN. Describe the different criteria for the rejection of names. 6+4