

**CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN,
NUVEM-GOA**

SEMESTER END EXAMINATION (ONLINE MODE), JULY 2021

Semester: **II B.Sc.** Course name & Code: **BOTANY-DSC (BOC102: Biodiversity-II)**
Max. Marks: **40** Date: **13/07/2021** Duration: **2 Hours** Total no. of pages: **01**

Instructions: 1) All questions are compulsory, however internal choice is available.
2) Figures to the right indicate maximum marks.
3) Draw labelled diagrams wherever necessary.

Q.I. Answer any FIVE of the following in brief: (5 x 2 marks=10)

- a) Write two points of difference between 'synangium' and 'strobilus'.
- b) List any 4 reasons for rejection of a botanical name.
- c) Define 'Binomial Nomenclature'.
- d) Differentiate between 'lectotype' and 'holotype'.
- e) List the differences between phenogram and cladogram.
- f) Give two examples for 'Taxonomic evidences from Palynology'.
- g) What are the three major types of classification? To which of these types does Bentham and Hooker's system belong?
- h) Give the floral formula and floral diagram for Poaceae.

Q.II. Answer any SIX of the following. (6 x 5 marks=30)

- 1) Write a note on stelar evolution in pteridophytes.
 - 2) Describe the reproductive structure in *Equisetum*.
 - 3) Explain the process of cork formation in gymnosperms.
 - 4) Draw a labelled diagram and describe the anatomical features of *Pinus* leaf.
 - 5) Describe floral characters of family Asteraceae.
 - 6) List the merits and demerits of Bentham and Hooker's system of classification.
 - 7) Write a note on a) Characters and b) Operational taxonomic units (OTUs).
 - 8) What is herbarium? Briefly describe the functions of herbaria.
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