

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

**SEMESTER END EXAMINATION (ONLINE MODE), JANUARY 2021**

Semester: **I B.Sc.** Subject: **Botany-DSC** Course name & Code: **Biodiversity-I (BOC 101)**

Max. Marks: **40** Date: **08/01/2021** Duration: **2 Hours** Total no. of pages: **01**

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

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

- a) Mention Iwanowski's and Beijerinck's contribution to virology.
- b) Give two points of difference between mycoplasma and eubacteria.
- c) What is sheathing mycorrhiza?
- d) Give four points of difference between fungi and viruses.
- e) What are conceptacles? Name the different parts of a male conceptacle.
- f) List the different reproductive structures in *Nostoc*.
- g) What is cystocarp? Name the different parts of a cystocarp in *Polysiphonia*.
- h) Draw a neat labelled diagram of T.S. of *Funaria* stem.

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

- 1) Elaborate on the process of virus replication.
- 2) Describe the components of a bacterial cell.
- 3) Explain the process of basidiocarp development in *Agaricus*.
- 4) Write an account on aggregation and modification of fungal hyphae.
- 5) Describe scalariform conjugation in *Spirogyra*.
- 6) Write an account on types of reproduction in Algae.
- 7) Describe the structure of sporophyte in *Anthoceros* and list the advanced characters.
- 8) Explain the ecological importance of Bryophytes.

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