

Total Pages-02

RNLKWC/B.Sc.-CBCS/IS/BOT/H/GE1T/22

2022

**BOTANY**

**[GENERIC]**

**(CBCS)**

**(B.Sc. First Semester EndExaminations-2022)**

**PAPER-GE1T**

***Full Marks: 40***

***Time: 02 Hrs***

*The figures in the right hand margin indicate marks  
Candidates are required to give their answers in their own words as  
far as practicable*

*Illustrate the answers wherever necessary*

**[Biodiversity, Microbes, algae, Fungi and Archegoniate]**

**Group - A**

**1. Answer any five of the following:**

**5x2=10**

- a) What is gonophore? Draw diagram.
- b) Differentiate between ascospores and basidiospores.
- c) What are pili and flagella?
- d) What are mesosome and episome?
- e) What is Red Snow? Give example.
- f) Mention the Indian species of Cycas.
- g) What is mycorrhizae? Give its uses.
- h) Why bryophytes are also called Amphibians among plant kingdoms?

(2)

**Group – B**

2. Answer any four of the following: 4x5=20
- a) Draw the sporangium of *Funaria* with diagram 1+4
  - b) Give the life cycle of *Penicillium*.
  - c) Describe the gametophytic structure of *Marchantia* thallus.
  - d) What are mycobionts and phycobionts? Give the similarities between pteridophytes and gymnosperms. 2+3
  - e) Mention the pigments and store foods of *Rhodophyceae*.  
Write the economic importance of *Rhodophyceae*. 2+3
  - f) Give the Indian species distribution of *Cycas*.

**Group – C**

3. Answer any one of the followings: 1x10=10
- a) Name one macroscopic alga. Name two edible fungi.  
Differentiate elaters and pseudoelaters. Classify the Lichens. 1+2+2+5
  - b) Name two heterosporous ferns. Write the fern characteristics of *Cycas*. Draw and discuss the strobilus structure of *Selaginella*. 2+3+5