

Total Pages-02

RNLKWC/B.Sc.-CBCS/IS/BOT/H/C1T/22

2022

BOTANY
[HONOURS]
(CBCS)

(B.Sc. First Semester End Examinations-2022)

PAPER-C1T

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*

Group - A

1. Answer any five of the following: 5x2=10

- a) Mention the pigments and food reserves of Bacillariophyta.
- b) Define sexduction.
- c) What do you mean by isomorphic alteration of generation?
- d) What is McDolandpfitzer Law?
- e) What is vaccine?
- f) Mention two unique features of Coleochoete?
- g) What are photolithotrops? Give an example.

(2)

Group – B

2. Answer any four of the following: 4x5=20
- a) Write short notes on : 2+2+1
- i) Mycoplasma & their pathogenicity.
- ii) Detailed structure of TMV virus. 2.5+2.5
- b) Describe the lytic cycle. 5
- c) Briefly describe the evolutionary significance of Prochloron. 5
- d) Write a brief note on auxospore formation. What is diatomaceous earth? 5
- e) Discuss the economic importance of algae with examples. 5
- f) Draw and describe the different phases of a typical bacterial growth curve. What is generation time? 4+1

Group – C

3. Answer any one of the followings: 1x10=10
- a) Draw and describe the life cycle of Polysiphonia sp. Write notes on Archaeobacteria. [2+4]+4 = 10
- b) Describe with diagram of conjugation process in bacterial reproduction. Write note on magnetoesome. [5+2]+3 = 10