

**2022**

**Microbiology**

**[HONOURS]**

**(CBCS)**

**(B.Sc. First Semester End Examination-2022)**

**PAPER-CC1T**

*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*

**Introduction to Microbiology and Microbial diversity.**

**Group-A**

**Answer any five questions of the following: 5x2=10**

1. Name one edible and one inedible mushroom.
2. Which period is known as golden age of microbiology? Who is the father of microbiology? 1+1
3. What is gram theory of disease? 2
4. What is hoplobiontic and diplobiontic life cycle? 1+1
5. Write down the composition of fungal cell wall. 2
6. What is imperfect fungi? Give example. 1+1
7. Define algal fungi and Sac fungi. 2
8. What are mycotoxins? Give one example. 1+1

(2)

**Group-B**

**Answer any four questions from the following: 4x5 = 20**

1. What is spontaneous generation theory? Name one experiment for disproving spontaneous generation theory. 1+4
2. What is Giardiasis? Mention the mode of Giardiasis transmission and its symptoms. 1+4
3. Briefly describe the thallus structure of fungi. 5
4. Write down the importance of microbial taxonomy? Write Carl-Woose Concept. 2+3
5. Why virus is called obligate parasite? Compare virion, viroid and prion. 2+3
6. Write down the economic importance of algae and fungi. 2.5+2.5

**Group -C**

**Answer any one question: 1x10 = 10**

1. What are monera and protista? Write down Whittaker's five kingdom concept. Differentiate between prokaryotes and eukaryotes. 2+2+3+3
2. Classify algae by virtue of the pigments they form and give example of each type. Which drugs are used for the treatment of leishmaniasis? Write down the role of microbes in agricultural field. 5+2+3