

Bankura University
B.Sc 1st Semester (Honours) Theory Examination,2021
Microbiology

Course ID: 12211

Course Code: SH/MCB/101/C-1

Course Title: Introduction to Microbiology & Microbial Diversity

Time: 1h 15 min

Full Marks: 25

The figures in the right hand side margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable

UNIT-I

- 1. Answer any five questions of the following: 1x5=5**
- a. Write down the contribution of Martinus Beijerinck in the development of Microbiology.
 - b. What is refractive index of a microscope?
 - c. Mention two pigments of Cyanophyta.
 - d. What are hormogonia?
 - e. Define viroids.
 - f. What do you mean by binary fission?
 - g. Mention role of one beneficial fungi .
 - h. What is the genetic material of Covid -19 ?

UNIT-II

- 2. Answer any two questions from the following: 5x2=10**
- a. Write down the principle and application of Phase contrast Microscope. (3+2=5)
 - b. Discuss in brief about Koch's postulates. What do you mean by sterilization? (4+1=5)
 - c. Mention the pathogenesis of Plasmodium. Name one control agent. (4+1=5)
 - d. Write down five economic importance of fungi.
- 3. Answer any one question from the following: 10x1=10**
- a. Discuss in brief about Carl Woese three kingdom concept of classification. Add a short note on Prion. (5+5=10)
 - b. What is algal bloom? Mention the general characteristic features of Chlorophyta. What is agar-agar? (2+6+2=10)