

THE HNSB. LTD. SCIENCE COLLEGE HIMATNAGAR
MICROBIOLOGY DEPARTMENT
2nd ASSIGNMENT SUBMISSION NOTICE

Year: 2022-2023

Date: 16/02/2023

This is to inform all the students of **B.Sc. MICROBIOLOGY SEM 2, 4 and 6** that students have to write down assignment in separate supply as shown below. Last date for submission is **24/02/2023**. Students must have to submit assignment before/on due date.

B.Sc. Sem-2

- **MB-201 – INTRODUCTION TO BACTERIOLOGY.**
 1. Explain any three methods of asexual reproduction in Bacteria.
 2. Write a short note on Cryopreservation.
 3. Discuss types of microorganism on basis of nutrition requirements.
 4. Write a short note on cell membrane in Bacteria.
 5. Write down Serial dilution technique method.

B.Sc. Sem-4

- **MB-401 – FOOD AND DAIRY MICROBIOLOGY**
 1. Write a short note on HACCP.
 2. Write short note on spoilage of canned food.
 3. Explain preservation by pasteurization.
 4. Intrinsic and Extrinsic factors that affect food.
- **MB-402 – ENVIRONMENTAL MICROBIOLOGY**
 1. Explain micro flora of soil.
 2. Write a brief note on microbial interactions.
 3. Write a short note on Carbon cycle.
 4. Explain in detail: MPN Test for water potability.

B.Sc. Sem-6

- **MB-601 – MICROBIAL GENETICS**

1. Write a note on specialized transduction.
2. Explain mechanism of Non replicative transposition.
3. Explain various types of Gene mutation.
4. Write a note on conjugation between Hfr and f- cell.

- **MB-602 – MICROBIAL PHYSIOLOGY AND METABOLISM**

1. Explain Vitamin B12 production.
2. Write note on control parameters of fermenter.
3. Write a brief note on Airlift fermenter.
4. Explain strain improvement.

- **MB-603 – MEDICAL MICROBIOLOGY**

1. Write a note on Complement fixation test.
2. Explain in detail AIDS.
3. Explain anti bacterial agents.
4. Write short note on gastrointestinal disease.

- **MB-604 – R-DNA TECHNOLOGY**

1. Write down restriction enzymes.
2. Write short note on Electroporation and microinjection.
3. Explain in detail genomic libraries.
4. Explain in detail: site directed mutagenesis (any two methods).