

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

Year: 2024-2025

Date: 03/01/2025

This is to inform all the students of **B.Sc. MICROBIOLOGY sem 4 and 6** that students have to write down assignment in separate supply as shown below. Last date for submission is **16/01/2025**. Students must have to submit assignment before/on due date.

B.Sc. Sem-4

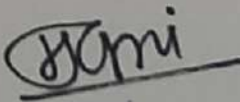
• **SC23MJDSCMIC401**

1. Write a short note on Watson & crick DNA model.
2. Write short note on DNA replication process.
3. Explain mutation types.
4. Give properties of genetic code.

• **SC23MJDSCMIC401A**

1. Explain cell disruption methods.
2. Write a brief note on batch sterilization process.
3. Write a short note on components of bioreactor.
4. Explain in detail:-any two preservation methods.




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B.Sc. Sem-6

- **MB-601 – MICROBIAL GENETICS**

1. Write a note on specialized transduction.
2. Explain mechanism of conjugation between Hfr & F⁺.
3. Explain various types of Gene mutation.
4. Discuss Griffith experiment.

- **MB-602 – INDUSTRIAL MICROBIOLOGY**

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

- **MB-603 – MEDICAL MICROBIOLOGY**

1. Explain in detail AIDS.
2. Explain Malaria disease.
3. Discuss normal flora of body.
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).



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