

2nd ASSIGNMENT SUBMISSION NOTICE

Year: 2022-2023

Date: 07/09/2022

This is to inform all the students of **B.Sc. MICROBIOLOGY SEM 1, 3 and 5** that students have to write down assignment in separate supply as shown below. Last date for submission is **15/09/2022**. Students must have to submit assignment before/on due date.

B.Sc. Sem-1

• **MB-101 – INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY.**

1. Explain Whittaker's five kingdom Classification system.
2. Write down rules for binomial Nomenclature.
3. Write a short note on structure of Fungi and economic importance of Fungi.
4. Give a contribution of Edward Jenner.
5. Write in detail: Abiogenesis.
6. Give a contribution on Discovery (father) of Antibiotics.
7. Write a working principle of Autoclave.
8. Give difference between SEM and TEM.

B.Sc. Sem-3

• **MB-301 – BIOCHEMISTRY**

1. Give general formula of amino acid, structures and its classification.
2. Explain in detail fatty acid structures and its functions.
3. Explain classification of enzyme.
4. Give classification of carbohydrates.

• **MB-302 – CELL BIOLOGY**

1. Explain Structure of Golgi apparatus.
2. Explain in detail protein glycosylation.
3. Draw a labeled diagram of chloroplasts and explain its structure and function.
4. Write a brief note on Meiosis phase I.
5. Explain function of Microtubules.

B.Sc. Sem-5

- **MB-501 – MOLECULAR BIOLOGY**

1. Explain mismatch repair in detail.
2. Explain Polyadenylation and capping.
3. Write down properties of Genetic code.
4. Give difference between Replication and transcription.

- **MB-502 – MICROBIAL PHYSIOLOGY AND METABOLISM**

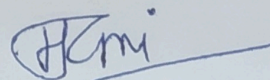
1. Explain different types of Extremophiles.
2. Write note on active and passive transport system of molecules.
3. Explain Lactic acid fermentation and alcoholic fermentation.
4. Write a note on Denitrification and DNRA.
5. Explain- Methanogenesis
6. Write a note on anoxygenic photosynthesis.
7. Explain - chemolithoautotrophs.

- **MB-503 – IMMUNOLOGY**

1. Write a note on ELISA.
2. Enlist types of Immune organs and explain any two in detail.
3. Write short note on Western Blotting.

- **MB-504 – MICROBIAL DIVERSITY AND BACTERIAL SYSTEMATICS**

1. Write general characteristics of protozoa with amoeba, paramecium and plasmodium.
2. Write short note on Carl woese classification system.
3. Explain in detail Proteobacteria.



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