



RAN - 2103000205021053

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T. Y. B. Sc. (Sem. - V) Examination March - 2023

Bioscience (Microbiology)

BS - 503 : Microbial Metabolism

[Total Marks: 50

सूचना : / Instructions

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

T. Y. B. Sc. (Sem. - V)

Name of the Subject :

Bioscience (Microbiology) BS - 503 : Microbial Metabolism

Subject Code No.: 2103000205021053

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks.
(3) Draw neat & clean diagram wherever necessary.

Q. 1 Answer in brief:

12

1. Describe in brief Formic acid fermentation.
2. What is biological amine?
3. Give the example of electron carrier & hydrogen acceptor.
4. What is the end product of reductive TCA and Oxidation of fatty acid.
5. Define: Anabolism, Gluconeogenesis.
6. Enlist enzymes involved in reductive TCA cycle.

Q. 2 Discuss in detail Common metabolic pathway for all macromolecules.

14

OR

Q. 2 Answer the following question.

14

1. Discuss in ETC in *E. coli*.
2. Glyoxylate cycle.

Q.3 **Answer any two of the following.** **14**

1. Write a note on Fermentation.
2. Describe in detail Chemoorganotrophic fuelling.
3. Write a note on Deamination.

Q.4 **Write short note on Any Two.** **10**

1. Stage-II glycolysis.
 2. Transamination.
 3. Anaerobic respiration.
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