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(20524)
B.Sc. (Micro.)-II Yr.

(Printed Pages 3)
Roll No.

3496

B.Sc. (Micro.) Examination, May-2024
MICROBIAL PHYSIOLOGY

(B-203)

[B.Sc. (Micro.)]

Time : Three Hours] [Maximum Marks : 50

Note : Attempt any **five** questions. **All**
question carries 10 marks.

1. Discuss classification of Microbes on the basis of nutritional types and also discuss the nutritional requirement and mode nutrition in microbes.
2. Write short notes on the following :
 - (a) Photosynthetic and accessory Pigments of Photosynthesis.
 - (b) Fermentation.

- (c) Chemostate culture.
- (d) CFU.
- (e) Batch culture.
- (f) Carotenoids.

3. Define effect of Physical and chemical factors on growth of microbes.
4. Discuss Photosynthesis in Eukaryotes and write note on Electron Transport chain.
5. Draw a Bacterial growth curve and express mathematically the generation time.
6. Discuss in detail about the matabolic process of microorganism.
7. Write notes on the following :
 - (i) Heterolactic fermentation.
 - (ii) Cyclic Photosphorylation.
 - (iii) Carotenoids.

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8. What do you mean by catabolism?
Describe the Glycolytic Pathway for sugar catabolism.
9. Differentiate between Mitochondria and Bacterial ETC.
10. What do you mean by Active Transport? Explain the process of group translocation.