

(20518)

Roll No.

B. Sc. (Micro.) -II Year

3496

B. Sc. (Micro.) Examination, May 2018

Microbial Physiology

(B-203)

Time : Three Hours]

[Maximum Marks : 50

Note : Answer any Five questions. All questions carry equal marks.

- 1. Write in detail about the mechanism of photosynthesis in bacteria. Explain with the help of diagrams. 10
- 2. Discuss the growth of microbes with special reference to effect of physical and chemical factors on it. 10

(2)

- 3. "Assimilation of CO₂ can be used as a measure of metabolic activity in heterophilic bacteria." Is the statement true or false ? Support your answer with suitable explanation and also give examples. 10
- 4. What is Microbial Physiology ? What do we study under it ? Write a short description of microbial metabolic processes. 10
- 5. Describe the importance of microorganisms and their diversity in nature with reference to their cellular structure and function. https://www.ccsustudy.com 10
- 6. Write short notes on the following : 2½×4=10
 - (a) Acidophile
 - (b) Halophile
 - (c) Obligate aerobe
 - (d) Chemotaxis.
- 7. How do solid cultures differ from liquid cultures ? Explain Batch cultures and continuous cultures with examples. 10

8. Write short notes on the following : 5+5=10

- (a) Phases of growth in microbial batch cultures
- (b) Secondary metabolites in microorganisms.

9. What are bacterial autotransporters ? Explain the nutrient transport mechanism in microbes. Give diagrams. 10

10. Write short notes on the following : $2\frac{1}{2} \times 4 = 10$

- (a) Passive transport
- (b) Symport and antiport
- (c) Bacteriochlorophyll
- (d) Difference between plant photosynthesis and bacterial photosynthesis.

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