



RAN-0938

S. Y. B. Sc. Microbiology - SEM-IV Examination

March / April - 2019

MB 09: MICROBIAL PHYSIOLOGY

Time: 2 Hours]

[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:

S. Y. B. Sc. Microbiology - SEM-IV

Name of the Subject :

MB 09: MICROBIAL PHYSIOLOGY

Subject Code No.: **0 9 3 8**

Seat No.:

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Student's Signature

2. Figures to the right indicate full marks of the question.
3. Draw neat and labelled diagrams whenever necessary.

Q.1 Give Specific answers

12

- a. Justify the role of ATP as coupling agent.
- b. What is cyclic photophosphorylation with suitable example.
- c. Define Fermentation and give its types.
- d. What is the role of lipases in lipid catabolism.
- e. Define: i) Conjugate redox pair ii) Standard reduction potential
- f. Enlist the end products obtained during process of aerobic respiration.

- Q.2** **Comment on any two of the following** **12**
- a. Generation of ATP is a fundamental biochemical process.
 - b. Acetyl Co-A is essential for Fatty acid catabolism.
 - c. TCA is an amphibolic and anapleurotic pathway.
- Q.3** **Attempt any two of the following.** **16**
- a. Discuss in detail the mechanisms of protein catabolism.
 - b. Explain the light reactions in anoxygenic photosynthesis
 - c. Describe the Embden-meyerhoff pathway for degradation of glucose to pyruvate.
- Q.4** **Write short notes on any two of the following** **10**
- a. Catabolic pathway for carbohydrates
 - b. Reverse electron flow of Chemolithotrophy.
 - c. ETC
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