



RAN - 1903000202030061

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B.Sc. Microbiology (Sem-II) Examination

March / April - 2019

MB 03: Microbial Nutrition and Growth

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

नीचे दशविवेक निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.

Fill up strictly the details of signs on your answer book

Name of the Examination:

B.Sc. Microbiology (Sem-II)

Name of the Subject :

MB 03: Microbial Nutrition and Growth

Subject Code No.: **1903000202030061**

Seat No.:

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Student's Signature

- (1) Figures to the right indicate full marks of the question.
- (2) Draw neat and labeled diagrams whenever necessary.

Q. 1 Give specific answers.

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1. What is water activity? What are values of a_w for milk and dried fruits?
2. Write the importance of manganese (Mn^{2+}), molybdenum (Mo^{2+}) and cobalt (Co^{2+}) as micronutrients.
3. Give the full form of VBNC. How it is important for public health?
4. Define Enriched medium. Give one example.
5. Define Growth rate constant and Generation Time.
6. State any one way of exclusion of oxygen from culture media for anaerobe cultivation?

Q. 2 Explain/comment on any two of the following.

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1. Different types of O_2 relationship are seen in micro organisms.
2. The rate of diffusion across membranes is greatly increased by carrier proteins.
3. Counting of microbial numbers involves various techniques.

