



# RAN-0945

**B.Sc. (Sem. IV) Examination**

**March / April - 2019**

**Bioscience**

**403 : Elementary Microbiology**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**सूचना : / Instructions**

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

Name of the Examination:

**B.Sc. (Sem. IV)**

Name of the Subject :

**Bioscience**

Subject Code No.: **0 9 4 5**

Seat No.:

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Student's Signature

Instructions :

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

**Q. 1 Give Specific answers**

**12**

1. How fimbriae do is differ from pili?
2. Explain: Growth curve.
3. Describe in brief lyophilization.
4. What is exaltation?
5. Define: Infection, Focal infection.
6. Name two normal flora of vagina.

**Q. 2 Write an essay on - Bacterial flagella.**

**14**

**OR**

Discuss in detail various methods for isolation of pure culture.

**14**

