

Reg. No.

--	--	--	--	--	--	--	--	--	--



**BSH 403**

**First Semester M.Sc. Degree Examination, December 2018**  
**(CBCS)**  
**BIOSCIENCES**  
**Basic Microbiology**

Time : 3 Hours

Max. Marks : 70

1. Write short notes on **any four** of the following (**not** exceeding **2** pages **each**) : **(4×4=16)**
- a) Antony van Leeuwenhoek
  - b) Anaerobic bacteria
  - c) Selective media
  - d) *Mycoplasmas*
  - e) Heterotrophs
  - f) ETS

Write explanatory notes on **any five** of the following (**not** exceeding **3** pages **each**) : **(5×6=30)**

- 2. Analysis of evolution.
- 3. Bergey's manual of determinative bacteriology.
- 4. Continuous culture.
- 5. Pentose phosphate pathway.
- 6. Physical method of sterilization.
- 7. Microbial nutrition.
- 8. Synthesis of secondary metabolites.

Answer **any two** of the following (**not** exceeding **8** pages **each**) : **(2×12=24)**

- 9. Discuss the contributions of any two early microbiologists to the field of microbiology.
  - 10. Write in detail an account on preservation of microbes with significance of various methods.
  - 11. Explain physical and chemical factors affecting microbial growth.
-