

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD
SEMESTER END EXAMINATION

B.Sc. (Hons.) Horticulture

Semester	: II (New)	Term	: II	Academic Year	: 2018-19
Course No.	: H/MIBO 121	Title	: Introductory Microbiology		
Credits	: 2 (1+1)				
Day & Date	: Tuesday, 07.05.2019	Time	: 09.00 to 11.00	Total Marks	: 40

- Note :
1. Solve ANY EIGHT questions from SECTION "A".
 2. All questions from SECTION "B" are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 Define culture medium and enlist different types of culture media based on physical state or consistency.
- Q.2 Define sterilization and enlist different physical methods of sterilization.
- Q.3 Differentiate between (Any One).
- a) Simple staining and differential staining b) Prokaryote and Eukaryote
- Q.4 Define Microbiology and write its scope in horticultural and allied sciences.
- Q.5 Define bio-fertilizers and enlist their different types.
- Q.6 Enlist growth phases in bacteria and explain bacterial growth curve.
- Q.7 Enlist the methods of reproduction in bacteria and explain in detail sexual method of reproduction.
- Q.8 Write short notes (Any Two).
- a) Bacteriophages b) Microscope
- c) Symbiosis
- Q.9 What are the general properties of viruses?
- Q.10 Comment on flagella arrangement in bacteria with schematic diagram and example of each.

SECTION "B"

- Q.11 Match the following pairs.

"A"

- 1) Robert Koch
- 2) Alexander Fleming
- 3) Thirumalachar
- 4) Anton Leeuwenhoek

"B"

- a) Aureofungin
- b) Microscope
- c) Anthrax disease
- d) Penicillin

- Q.12 Fill in the blanks.

- 1) Bacteria with tuft of flagella at one or both ends are known as _____.
- 2) Bacterial genus *Pseudomonas* is _____ in Gram reaction.
- 3) The viruses infecting bacteria is called _____.
- 4) Bacteria having flagella all over body part is called _____.

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