MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Horticulture

	ctor : 11 (Now) Term : Second Academic Year : 2022-23
Seme	ster ; II (New)
Credi	se No. : H/MIBO 121 Title : Introductory Microbiology
	Date : Friday, 04.08.2023 Time : 9:00 to 11:00 hrs. 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 diagram wherever necessary.
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Q.1	Define microbiology. Explain its scope and importance in horticulture and allied fields.
Q.2	Enlist various internal and external parts of bacterial cell. State the functions of cell wall
	and mesosomes.
Q.3	Define reproduction. Enlist different methods of reproduction in bacteria and explain conjugation in brief.
Q.4	Define fungi. Write the general characteristics of fungi.
Q.5	Differentiate between prokaryotic and eukaryotic cell.
Q.6	Define bacterial growth. Explain growth phases in bacteria with growth curve.
Q.7	What do you mean by virus? Give the characteristics of virus along with example of diseases caused by them.
Q.8	Give one major contribution of the following Scientists:
	a) Robert Hooke b) Louis Pasteur c) Robert Koch d) Joseph Lister
Q.9	Define sterilization. Enlist various methods of sterilization and explain radiation method in detail.
Q.10	Write short notes on (Any Two):
	a) Symbiosis b) Bacteriophage c) Binary fission
	SECTION 'B'
Q.11	Define the following terms:
	1) Antibiosis 2) Pure culture 3) Isolation 4) Simple staining
Q.12	Fill in the blanks:
U	1) Science which deals with the study of algae, is known as
	2) Actinomycetes are known as
	3) Alexander Fleming discovered the first antibiotic
	4) The zone/region of soll immediately surrounding the plant root surface, is called as

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