MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

	B.Sc.(Hons.) Horticulture
Semester	: II (New) Term : Second Academic Year : 2021-22
Course No	o. : H/MIBO 121 Title : Introductory Microbiology
Credits	: 2 (1+1) ate : Friday, 16.09.2022 Time : 9:00 to 11:00 hrs
Day & Da Not	Thinky, which the free SECTION 'A'
NU	All questions from SECTION 'B' are compulsory.
	 All questions carry equal marks. Draw neat diagram wherever necessary.
	4. Draw near diagram wherever needed y
01 F	nlist major groups of microorganisms and describe characteristics of pacteria and fungi.
Q.1 E	nlist major groups of interoorganisms and decorrect characterist suitable diagram.
Q.2 a)	Explain in detail various phases of bacterial growth with suitable diagram.
) Discuss the differences between prokaryotic and eukaryotic cells.
	Explain in brief general properties of viruses.
b)) Discus in brief steps involved in bacteriophage replication.
bi	nlist different methods of quantitative measurement of bacterial growth and explain in rief membrane-filter count and turbidimetric methods.
Q.5 E	nlist different types of biopesticides along with suitable examples.
	nlist the industrial uses of bacteria and describe in detail vinegar production.
Q.7 H	Iow did each Scientist disprove spontaneous generation?
-	Vrite short notes on (Any Two):
) Different types of culture media
b) Contributions of Robert Koch
c)	Advantages of biological control
Q.9 C	comment on importance and scope of microbiology in agriculture and allied fields.
Q.10 E	inlist various physical and chemical methods of sterilization and describe in detail
st	terilization by temperature.
	SECTION 'B'
Q.11 D	Do as directed:
1) Who developed the first compound microscope? (Answer in one sentence)
) Selective culture medium. (Define)
3) Bright field microscopy. (Define)) Bacteria that retain the crystal violet-iodine complex, when stained by Gram technique
4	are called bacteria. (Fill in the blank)
Q.12 D	Define the following terms:
The second second) Disinfection 2) Pure culture
1) Tyndallization 4) Bio-control
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	정말 가지 않는 것 같은 것 같은 것이 같은 것을 가지 않는 것이 같이 없다.

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