Time  $-2\frac{1}{2}$ 

Marks - 75

		36.00
<b>Q.1</b> a	Attempt any two Explain the process of the inhibition of nucleic acid and protein synthesis by the antibiotic Streptomycin.	15
b	Write an essay of antibiotics and their mode of action.	
c	Give a brief account on the biological assay of antimicrobial compounds.	
d	Describe the process of inhibition of cell wall synthesis in Penicillin.	57
<b>Q.2</b> a	Attempt any two What is fermentation? With respect to the same, describe a fermentor.	15
b	State the steps involved in the production of glutamic acid.	
с	Describe the procedure adopted in the production of Penicillin with the aid of a suitable diagram.	
d	Write a brief essay on the culturing, extraction and treatment of amylase for industrial production.	
<b>Q.3</b> a	Attempt any two State the systematic position and the thallus structure of <i>Albugo</i> .	15
b	Describe the uredospores and telutospores in <i>Puccinia</i> .	
C	State the systematic position of <i>Xylaria</i> . Write a note on the section of its stroma.	

Write the systematic position of Fusarium. Describe asexual reproduction in the same.

## Q.4 Attempt any two

- State the causal organism, predisposing factors and disease cycle of the Tikka disease of groundnut.
- b Describe the chemical methods employed for plant disease control.
- c Give a brief account of the predisposing factors, symptoms and control measures of wilt of pigeon pea disease.
- d State the biological methods used for the control of plant disease.

## Q.5 Attempt any three

15

15

- a Industrial uses of amylase.
- b Chemical assay of an antimicrobial compound.
- c History of the discovery of Penicillin.
- d Conidia of Albugo.
- e Dead man's fingers.
- f Physical methods used for plant disease control.

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