QP Code: 12878

(21/2 Hours)

[Total Marks : 75

N.B.: (1) All questions are compulsory.

- (2) All questions carry equal marks.
- (3) Draw neat labelled diagrams wherever necessary.

1. Attempt any two of the following:

- (a) Describe inhibition of nucleic acid and protein synthesis by Streptomycin.
- (b) Discuss the chemical structure of Penicillin. Add a note on the history of discovery of Penicillin.
- (c) Explain Disc diffusion plate technique for microsological assay of antimicrobial compound.
- (d) Define chemical assay and explain titration and gravimetric analysis of antimicrobial compound.

2. Attempt any two of the following:

- (a) Define culture medium. Discuss advantages and disadvantages of solid and liquid medium.
- (b) Explain the process of inocylum preparation and give the flow sheet of Industrial production of Penicillin.
- (c) Give the source and explain the semisolid culture method for industrial production of Amylase.
- (d) Describe in brief the industrial production of Glutamic acid.

3. Attempt any two of the following:

(a) With the hop of neat labelled diagrams describe asexual reproduction in Alburgo. Add a note on its systematic position.

(b) Describe the stages of Puccinia on primary host. Add a note on its systematic position.

(c) Write classification of Fusarium. Explain asexual reproduction in same.

Give an account of structure of stroma of Xylaria. Give its classification.

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4. Attempt any two of the following:

Discuss symptoms, causal organism and control measures of Tikka

ds of biological connysical control method

e following:

f account of Narrow and Broad

Auxanography.

ases of Glutamic acid.

eribe pycnidial stage of Puccinia.

Ave a brief account of chemical control measure

explain control measures of Wilt of Pigeory Rea. Describe the causal organism, symptoms and disease cycle of Wilt Give various methods of biological control of plant diseases.

Discuss various physical control methods of plant diseases.

Give a brief account of Narrow and Broad spectrum antiprotics.

Discuss Auxanography.

Give uses of Glutamic acid.

Describe pycnidial stage of Puccinia.

Give a brief account of chemical control masses. Give a brief account of chemical control measures of plant diseases.

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