## 4/EH-62 (iv) (Syllabus-2015)

2017

(April)

**BOTANY** 

(Elective)

( Microbiology, Mycology and Plant Pathology )

(BOTELH-401)

Marks: 56

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer five questions in total. Question No. 1 is compulsory. Select the remaining **four** questions **one** from each Section

- 1. Write short notes on the following:  $4\times4=16$ 
  - (a) Archaebacteria
  - (b) Pasteurization
  - (c) Economic importance of lichens
  - (d) Koch's postulates

### SECTION—I

2. With the help of suitable diagram, describe the ultrastructure of a bacterial cell. 10

Explain with diagrams the lytic cycle of

SECTION-II 4. Describe various phases of a typical microbial growth curve. 10 5. Give a brief account on the role of microbes

10

in decomposition of organic matter. SECTION—III

6. What is heteroecious fungus? Describe the life cycle of Puccinia. 1+9=10 7. Write brief accounts on the following:  $5\times2=10$ (a) Development of ascus (b) Economic importance of fungi

# SECTION—IV

8. Describe in brief disease symptoms, disease cycle and control measures of late blight of 3+5+2=<sup>10</sup>

Write notes on the following: 5×2=10 Dissemination of plant diseases (b) Classification of plant diseases based on causal organisms

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