| Time – 3 hr. |   | Marks -10  | Marks -100 |  |
|--------------|---|--|------------|--|
|              | N.B.  | 1. All questions are compulsory.                           |            |  |
|              |   | 2. Draw neat labelled diagrams wherever necessary.         | E CHILL    |  |
|              |   | 3. All questions carry equal marks.                        | 13.6       |  |
| <b>Q.1</b>   | Attempt any two   |  | 20         |  |
| a            | What is sterilization? Explain in detail any two methods of sterilization.                      |  |            |  |
| b            | Write a detailed note on colony characters exhibited by bacteria.                               |  |            |  |
| c            | What is pure culture? Discuss any one method of preparation of pure culture.                    |  |            |  |
| d            | What are antibiotic? Describe method of antibiotic production & write its uses.                 |  |            |  |
| Q.2          | Attempt any two   |  | 20         |  |
| a            | Give an account of post-fertilization changes in the life cycle of <i>Batrachospermum</i> .     |  |            |  |
| b            | Describe the sexua  | l reproduction of <i>Polysiphonia</i> .                    | 37 14 10   |  |
| c            | Describe the thallus structure of <i>Vaucheria</i> . Write classification of <i>Vaucheria</i> . |  |            |  |
| d            | Explain the general characters of Xanthophyta.  |  |            |  |
| Q.3          | Attempt any two   |  | 20         |  |
| a            | Give a brief account of basidiocarp in Basidiomycetes.  |  |            |  |
| b            | Describe L.S. of the gills of Agaricus, Add a note on its systematic position.                  |  |            |  |
| c            | Describe life cycle of <i>Puccinia</i> on the primary host.                                     |  |            |  |
| d            | . Give detailed gene  | eral characters of Deuteromycetes.                         |            |  |
| Q.4          | Attempt any two   |  | 20         |  |
| a            |   | ne causal organism, symptoms and control measures of Tikka |            |  |
| b            |   | posing factors and disease cycle of leaf curl of Papaya.   |            |  |
|              |   | rganism and describe the symptoms, disease cycle & control |            |  |
| c            | measures of White   |  |            |  |
| d            | N. W. W.  | ount of Biological control of plant disease.               |            |  |
| Q.5          | Write short notes.  | (Attempt any Four)   | 20         |  |
| a            | Single staining.  |  |            |  |
| b            | Algae as microbes.  |  |            |  |
| c            | Cell division in <i>Pin</i>   | nularia  |            |  |
| d            | Aecidiospore of <i>Pu</i>   |  |            |  |
| e s          | Classification of A   |  |            |  |
| f            |   | atic presentation of Damping off seedling disease.         |            |  |
|              |   | ********   |            |  |

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