

AS/2110

5199/NH

Paper-I: Diversity of Microbes

Time: 3 hrs

Max. Marks: 40

Attempt two questions each from sections A and B and the entire section-C

Section-A

1. Give a brief account on structure and reproduction in bacteria 6
2. Give detailed account on Mycoplasma 6
3. Describe lytic and lysogenic cycle in viruses 6
4. Discuss economic importance of bacteria 6

Section-B

5. Give a detailed account on life cycle of *Saccharomyces* 6
6. Discuss in detail the life history of *Ustilago* 6
7. Give a detailed account on structure and reproduction in Lichens 6
8. Describe life cycle of *Puccinia* 6

Section-C

9. Attempt all parts
- a. Explain nutritional categories of bacteria
- b. Explain *Peziza* cup
- c. What is Cliestothecium?
- d. Write a brief note on *Albugo*
- e. Draw life cycle of *Colletotrichum*
- f. Write host of *Phytophthora*
- g. Write a note on *Oscillatoria*
- h. Name two human diseases caused by bacteria 8 x 2 = 16