

**B.Sc. Semester I ( Honours ) Examination- 2020**

**Subject : MICROBIOLOGY (H)**

**Paper CC-I (INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY)**

**TIME : 2 HOURS**

**Full Marks-40**

**Answer any 8 questions of the following 5 x 8 =40**

1. Briefly mention the contribution of Robert Koch in Microbiology. What is Miasma Theory?
2. Give example of two bacterial diseases with causal agents and mention the Gram nature of the causal organisms.
3. Write the name of five industrially important microbes and mention their products.
4. What are viruses? Illustrate the structure of a typical virus.
5. What is the resolution power of unaided human eyes? What kind of lens is used in SEM? Differentiate between SEM and TEM.
6. Write the name of five economically important fungi with their specific role.
7. Mention the characteristics of prions. Name two diseases caused by them.
8. Briefly describe the sexual reproduction of chlorophycean algae with suitable sketch.
9. Mention the kingdoms of Whittaker's system of classification? What is the basis of Carl Woese's three domain concept?
10. Name a human disease caused by protozoa. Schematically represent its life cycle.