S.K. UNIVERSITY

I – B.Sc. DEGREE MICROBIOLOGY SEMESTER – I EXAMINATIONS

SEMESTER SYSTEM UNDER CBCS wef 2020-2021

PAPER I: INTRODCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY

TIME – 3 Hrs. MAX MARKS: 75M

SECTION – A

I .Answer any five of the following 5\*5=25M

1. Anton von Leewenhoek

2. Whittaker classification

3. Autoclave

4. Pour plate

5. Simple staining

6. Enrichment media

7. Microscopic counts

8. Bacterial growth curve

SECTION- B

II .Answer any five of the following: 5\*10=50M

11 . a) Describe the importance and applications of Microbiology.

(or)

b) Describe the general characteristics of Archaea.

12. a) Describe radiation and filtration methods of sterilization.

(or)

b) Describe different methods for preservation of Microbial cultures.

13. a) Explain about Scanning Electron Microscopy(SEM).

(or)

b) Explain various methods of Differential Staining.

14. a) Describe Direct methods for measuring Bacterial Growth.

(or)

b) Explain in detail about continuous growth of Bacterial Culture.

15. a) Describe the structure of Bacterial Cell Wall.

(or)

b) Discuss about the economic importance of algae and fungi.