

B. Sc. Semester-I (Honours) Examinations, 2020
Subject- Microbiology (H)
Paper- CC-2 (Bacteriology) (Theory)

Full Marks: 40

Time- 2 hrs.

Answer *any eight* questions from the following

5 x 8 = 40

- 1. Define endoflagella, pili, nucleoid, plasmid and capsule with respect to a typical bacterial cell.**
- 2. Explain the structure of a typical bacterial endospore with a suitable labeled diagram.**
- 3. Name four physical methods for controlling microbes. Explain the mechanism of action for any one of them.**
- 4. Explain the basic principle of Gram staining method.**
- 5. Name two techniques for isolating pure culture of bacteria. Briefly describe the procedure for any one.**
- 6. Briefly explain the phases of a typical bacterial growth curve with a labeled diagram.**
- 7. What are archaea? Name four physiological groups of archaea, citing example for each.**
- 8. What are selective media? Give an example. How do they differ from differential media?**
- 9. Write salient characteristics of cyanobacteria with examples.**
- 10. Briefly discuss morphological and molecular characters used for bacterial taxonomy.**