2 0 1 9

PG Even Semester (CBCS) Exam., May—2019

MICROBIOLOGY

(2nd Semester)

Course No. : MIBOC–203

(Basic and Applied Microbiology)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. Describe the differences between bacteria and archaebacteria. 14

2. Explain the importance of phylogeny in bacterial classification. 14

UNIT—II

3. What is pure culture? Describe the methods for isolation of pure culture. 14

4. What are unculturable bacteria? Describe culture-independent methods for study of unculturable bacteria. 14

UNIT—III

5. Explain the symptom, cause and treatment of swine flu. 14

6. What are the different types of plague? Describe the symptoms and treatment of plague. 14

UNIT—IV

7. Describe the different types of aerobic and anaerobic processes for wastewater treatment. 14

8. Write the roles of microorganism for waste treatment with suitable examples. 14

UNIT—V

9. Define fermentation. Write details of vinegar and cheese productions in industry. 14

10. Write short notes on : 7×2=14

(a) Biopolymer and bioplastics

(b) Structure and function of bioreactor

★ ★ ★