PG Even Semester (CBCS) Exam., May—2017

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 characteristics that differentiate Archaebacteria from Eubacteria. 14

2. Write a detailed note on taxonomy of bacteria. What are the various methods used in bacterial taxonomy? 14

UNIT—II

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

4. What are non-culturable microorganisms? Explain the diversity and functional aspects of non-culturable microorganisms. 14

UNIT—III

5. Describe swine flu and bird flu, with emphasis on causal organisms and epidemology. 14

6. Explain the symptoms and diagnostic features for plague. 14

UNIT—IV

7. Explain the aerobic and anaerobic processes of wastewater treatment. 14

8. How are the microorganisms helpful in biodegradation of harmful chemicals? 14

UNIT—V

9. Explain the synthesis and uses of biopolymers and bioplastics. 14

10. Write notes on the following : 7×2=14

(a) Ideal bioreactor

(b) Vinegar

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