

# KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2013 Admission  
II<sup>nd</sup> Semester Final Examination-June.2014

Cat. No: Fdqu.1202  
Title: General Microbiology (1+1)

Marks: 50  
Time: 2 hours

I. Match the following (10 x 1=10)

- |                          |                  |
|--------------------------|------------------|
| 1. Endospore             | A. ✓ Antibiotic  |
| 2. Streptomycin          | B. Bacillus      |
| 3. Nitrogenase           | C. ✓ Microscope  |
| 4. J. Lister             | D. Rhizobium     |
| 5. Anton Van Leeuwenhoek | E. ✓ Antiseptic  |
| 6. Rings                 | F. Eucaryotes    |
| 7. Endoplasmic reticulum | G. ✓ Protozoa    |
| 8. Active Immunity       | H. High Pressure |
| 9. Amoebic dysentery     | I. ✓ Vaccination |
| 10 Barophiles            | J. Flagella      |

II Write short notes on any FIVE questions

(5x 2=10)

- |                         |                  |
|-------------------------|------------------|
| 1. ✓ Continuous culture | 5. ✓ Prokaryotes |
| 2. ✓ Robert Koch        | 6. ✓ Enumeration |
| 3. Passive immunity     | 7. ✓ Fimbriae    |
| 4. ✓ Slime of Bacteria  |                  |

III Write short notes on any FIVE questions

(5x 4=20)

1. ✓ Diagrammatically explain the lytic life cycle of a virus
2. ✓ Define mutation and explain different types of bacterial mutation
3. Give the classification of fungi with one example for each
4. ✓ Explain different methods of preservation of microorganisms
5. ✓ Describe the growth curve of bacteria with a diagram
6. ✓ Write a note on the photosynthetic microorganisms
7. ✓ Mention the types and uses of culture media

IV. Write an essay on any one (1x 10=10)

1. Describe different methods of gene transfers in bacteria
2. ✓ Describe various microbial products available and their uses