

KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2012 Admission

IInd Semester One time Special Re-Examination-June -2016

Cat. No: Fdqu. 1202

Title: General Microbiology (1+1)

Marks: 80.00

Time: 3 hours

- I. Match the following (10x1=10)
- | | |
|------------------|------------------------|
| 1. Gene transfer | a. Locomotion |
| 2. Turbidimetry | b. Alexander Fleming |
| 3. Algae | c. Enumeration |
| 4. Vaccine | d. Conjugation |
| 5. Agar | e. Bacterial cell wall |
| 6. Penicillin | f. Enzymes |
| 7. Peptidoglycan | g. Eukaryotes |
| 8. Transduction | h. Immunization |
| 9. Proteins | i. Solidifying agent |
| 10. Flagella | j. Bacteriophage |
- II. Write short notes on ANY TEN (10x3=30)
1. Pasteurization
 2. Enrichment culture
 3. Vaccines
 4. Transmission Electron Microscope
 5. Structure of antibody
 6. Contributions of Anton van Leeuwenhoek
 7. Lyophilization
 8. Dark field microscopy
 9. Synchronous culture
 10. Resolving power
 11. Contributions of Beijerinck
 12. Chemical nature of viruses
- III. Write short essays on ANY SIX of the following (6x5=30)
1. Parts of a light microscope
 2. Lysogenic cycle
 3. Microbial products of economic importance
 4. Outline the classification of bacteria
 5. Types of mutation
 6. Energy production in aerobic bacteria
 7. Differential staining of bacteria
 8. Antigen-antibody interaction
- IV. Write essay on any one (1x10=10)
1. What is meant by growth curve? What are the different stages in growth curve of bacteria? Discuss briefly on methods for enumeration of bacteria.
 2. Discuss on various methods of genetic recombination in bacteria