KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food Engg.) 2011 Admission IInd Semester Final Examination, July/August 2012

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

Marks: 80 Time: 3hours

| I | |
|--|--|
| 1 | . Fungal hyphal cross wall is called |
| 2 | . In water potability testis used as indicator bacterium |
| 3 | . Prokaryotic DNA does not contain protein |
| 4 | . Agaricus bisporus is a Fungi |
| 5. | anguma at l |
| 6. | elizythe catalyses nitrogen fixation |
| 7, | Life cycle of virus |
| | comers resistance to the bacterial endospores |
| 0 | Bactella |
| 9. | of a bacteria is due to its |
| 10 | Is the term given to bacteria without cell wall, |
| II. | Write short answers on any ten $(10x 3 = 30)$ |
| 1. | Synchronous culture 2. Eukarote 3. Phase contrast microscope |
| 4. | Louis Pasteur 5 Differential staining 6. Phyllosphere |
| 7. | Active immunity 8. Auxotroph 9, Pili |
| 10. | . Capsule of bacterium 11. Transduction 12. Conjugation |
| III. | |
| 2. 3. 4. 5. 6. 7. 8. | Mention different sterilization techniques and explain autoclaving in detail Explain methods of isolation of microorganisms What are the different preservation techniques for the microorganisms With a neat diagram explain the life cycle of bacteriophage Give the classification of algae Mention the different industrial application of microorganisms What is a chemostat, explain with a diagram Write a note on anaerobic microorganisms |
| IV. 1. 2. | Write an essay on any one What is immunology, explain how antibodies can be produced and its application Describe different microbial enumeration techniques |