

KERALA AGRICULTURAL UNIVERSITY B.Tech.(Food Engg) 2018 Admission

II Semester Final Examination- June 2019

General Microbiology(1+1)

Marks: 50

Time: 2 hours Fill up the blanks (10x1=10)1 has described phagocytosis of bacteria. 2 Gram-positive cell walls contain a higher percentage of than those of Gram-negative cells. 3 The DNA of phages becomes integrated into the host genome, where it is known as a 4 is a group of related genes under the control of a single operator sequence 5 is a mutation in which a purine replaces a pyrimidine, or a pyrimidine replaces a purine is an organism that can derive its carbon from carbon dioxide 6 is a medium that allows colonies of a particular organism to be differentiated from others growing in the same culture is the synthesis of ATP by the direct transfer of a phosphate group from a 8 phosphorylated organic compound to ADP. 9 is the process of uptake of naked DNA from the environment and its integration into the host genome is the process of bacteriophage-mediated transfer of genetic material 10 between bacteria. П Write Short notes on any FIVE of the following (5x2=10)Four examples of microbes used in our day to day activities. 1 2 Third kingdom Protista. 3 Applied areas of microbiology. Functions of bacterial capsule. Continuous culture. 5 Koch's Postulates. Various antigen antibody reactions. Answer any FIVE of the following. Ш (5x4=20)Contribution of Louis Pasteur. 1 Major characteristics of microorganisms used in classification. Electron microscope. Pour plate method for isolation and enumeration of bacteria. Conjugation. Characteristics of Immune response. Bacterial transcription. IV Answer any ONE of the following (1x10=10)1 Bacterial cell structure with their functions Glycolysis pathway along with account for the ATP yield per glucose molecule