



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Engg.)
II Semester Re- Examination-October 2021
2019 Admission

Fdqu.1202

General Microbiology(1+1)

Marks: 50

Time: 2 hours
(10x1=10)

I Fill in the blanks

1. _____ is first to observe and describe microbes accurately.
2. Many bacteria commonly carry extrachromosomal pieces of DNA called _____, which are able to replicate independently of the bacterial chromosome
3. Ingestion and digestion of particulate matter by a cell, is called as _____
4. A mutation that results in a change to the reading frame, and thus an altered sequence of amino acids downstream of the point where it occurs is called as _____.
5. _____ is the ability of a molecule such as a nucleotide base to exist in two alternative forms.
6. _____ is the process by which single-stranded mRNA is synthesized from a complementary DNA template
7. _____ is a culture that uses a selective medium to encourage the growth of an organism present in low numbers
8. _____ is the process by which the message encoded in mRNA is converted into a sequence of amino acids
9. _____ is an organism that is able to tolerate low temperatures.
10. _____ is an organism that uses inorganic molecules as a source of electrons

II Write short notes on ANY FIVE of the following

(5x2=10)

1. Enlist four detrimental activities of microbes.
2. What are the criteria used in five kingdom system of classification given by Whittaker?
3. What are the functions of bacterial cell wall?
4. What are methods of synchronous culture?
5. Enlist various antigen antibody reactions.
6. Define: antibody and enlist their classes.
7. Enlist the phases of bacterial growth curve with labelled diagram.

III Answer ANY FIVE of the following

(5x4=20)

1. Narrate on Germ Theory of Disease.
2. Explain various characteristics of microorganisms used in classification.
3. Write short note on phase contrast microscope.
4. Describe various methods of preservation of microorganisms.
5. Write note on bacterial transformation.
6. Describe classes of antibody.
7. Write note on bacterial of translation.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Describe kreb cycle.
2. Write detailed note on vaccines.
