



KERALA AGRICULTURAL UNIVERSITY
B.Tech. (Food Engg.) 2017 Admission
II Semester Final Examination- July 2018

Fdqu.1202

General Microbiology (1+1)

Marks: 50
Time: 2 hours

I Choose the correct answer

(10x1=10)

- 1 First Scientist to detect the role of micro organs in fermentation.
a) Louis Pasteur b) Robert Hook
c) Paul Ehrlich d) Sir Howard Florey
- 2 He is called as the father of bacteriology
a) Louis Pasteur b) Antony Van Leuwenhoek
c) Robert Koch d) Edward Jenner
- 3 This biologist discovered the enzyme lysozyme
a) S A Waksman b) Alexander Fleming
c) Edward Jenner d) Robert Koch
- 4 Phase contrast microscope is used
a) Gram stained bacteria b) Viral particles
c) Simple stained bacteria d) Unstained living microorganisms
- 5 Fungal walls are formed from
a) Proteinmyofibrils+Carbohydrate b) Semi crystalline chitin
c) Lipoprotein d) None of the above

Match the following

A

B

- | | |
|--------------------------|---------------------------------|
| 6 Mycoplasma | a) <i>Lactococcus lactis</i> |
| 7 Glycocalyx | b) Lederberg and Tatum |
| 8 Nicin | c) Parasitic |
| 9 Myxozoa | d) Capsule |
| 10 Bacterial conjugation | e) Bacteria that lack cell wall |

II Write Short notes on ANY FIVE of the following

(5x2=10)

- 1 Theory of spontaneous generation
- 2 Theory of biogenesis
- 3 Resolution of a microscope
- 4 Two functions of a microscope
- 5 Major types of microscopes based on Illumination
- 6 Plasmid
- 7 Histones

III Answer ANY FIVE of the following

(5x4=20)

- 1 How does wavelength of light effect resolution of a microscope?
- 2 Differentiate between TEM and SEM
- 3 Agglutination
- 4 Bacteriophages lytic and lysogenic
- 5 Microbial mutation
- 6 Generalized structure of bacterial genome
- 7 Grams stain.

IV Write an essay on ANY ONE of the following

(1x10=10)

- 1 Explain sporulation in bacteria
- 2 Types of Vaccines.
