



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.

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