

2018

Full Marks : 40

Time : 2 hours

All questions carry equal marks.

Answer all questions.

Give labeled diagram wherever necessary.

(MICROBIOLOGY)

1. (a) Describe the structure, function of cell wall and related molecules of Prokaryotic cell.

OR

- (b) Write short notes on the following :
(a) Membrane structure of Gram negative bacteria.
(b) Flagella and motility

2. (a) Describe important pathogenic bacteria & viruses in aquaculture.

OR

- (b) Write short notes on the following :
(a) Principles of microbial nutrients
(b) Isolation techniques of chemoheterotrophs

3. (a) Describe the environmental factors affecting microbial growth.

OR

- (b) Write short notes on the following :
(a) Continuous culture
(b) Measurement of microbial growth

4. (a) Write an essay on host parasite relationship.

OR

- (b) Write short notes on the following :
(a) Sulfa drug
(b) Plague

5. (a) Describe structure, isolation and purification process of Viruses.

OR

- (b) Write short notes on the following :
(a) Plasmid DNA and its transfer
(b) Vaccines
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