

Seat No.	
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B.Sc. (Semester - I) (New) (CBCS) Examination Oct/Nov-2019
Entrepreneurship
Industrial Microbiology – I
FUNDAMENTALS OF MICROBIOLOGY

Day & Date: Thursday, 14-11-2019
Time: 03:00 PM To 05:00 PM

Max. Marks: 40

Instructions: 1) All questions are compulsory.
2) Figures to the right indicate full marks.

Q.1 Select the correct alternatives from the following and rewrite the sentence. 08

- 1) The size range of viruses is from about _____.
a) 200 to 300 nm b) 20 to 1000 nm
c) 20 to 900 nm d) 20 to 700 nm
- 2) Bacteria were first observed by _____ in 1676.
a) Louis Pasteur b) Robert Koch
c) Albert Dannel d) Antony van Leeuwenhoek
- 3) The purpose of swan-necked flasks that Louis Pasteur designed to disprove spontaneous generation is to _____.
a) Pasteurize the meat brot
b) Trap the microbes and prevent them from reaching the broth
c) Prevent air from entering the flask
d) None of these
- 4) In Basidiomycota phylum reproduce sexually by forming spores on top of club-shaped structures called _____.
a) Basidia b) Xspores
c) Conidia d) Spores
- 5) _____ are a large group of aerobic, high G-C percentage Gram-positive bacteria that form branching filaments or hyphae and asexual spores.
a) Algae b) Bacteria
c) Virus d) Actinomycetes
- 6) _____ are the golden-brown algae.
a) Chrysophyta b) Rhodophyta
c) Phaephyta d) Xenophyta
- 7) _____ infect both humans and arthropods.
a) Bacillus anthrax b) Rhizobium
c) Azotobacter d) Rickettsiae
- 8) _____ is the branch of science which deals with the study of algae.
a) Mycology b) Phycology
c) Virology d) Bacteriology

- Q.2 Answer the following questions. (Any Four) 08**
- 1) Function of Flagella
 - 2) Contribution of Whittaker's five kingdom
 - 3) Distribution and occurrence fungi
 - 4) Functions of Bacterial Cell wall.
 - 5) Types of microorganism
 - 6) Contribution of Robert Koch
- Q.3 Answer the following questions. (Any Two) 08**
- 1) Explain establishment of fields of medical microbiology and immunology through the work of Paul Ehrlich.
 - 2) Write in detail diauxic growth.
 - 3) Differences between eubacteria and Archaeobacteria
- Q.4 Answer the following questions. (Any Two) 08**
- 1) Explain the facultative aerobe and facultative anaerobe and give its examples.
 - 2) Write a note on chemicals as sterilizing agents.
 - 3) Explain difference between prokaryotic and eukaryotic microorganisms.
- Q.5 Answer the following questions. (Any One) 08**
- 1) Define growth and explain continuous and batch culture.
 - 2) Define antisepsis and explain Physical agents of sterilization.