

RAMAKRISHNA MISSION VIDYAMANDIRA
(Residential Autonomous College affiliated to University of Calcutta)

FIRST YEAR [2019-22]

B.A./B.Sc. FIRST SEMESTER (July – December) 2019

Mid-Semester Examination, September 2019

Date : 16/09/19

Time : 11 am – 12 noon

MICROBIOLOGY (Honours)

Paper : I (CC 1)

Full Marks : 25

Answer All questions of the following:

1. a) What is mean by “new yeast” in the context of microbial transformation of organic compounds. [2]
b) How did Louis Pasteur disprove the doctrine of abiogenesis ? [3]
2. a) Do you think rRNA is an ideal molecule for detecting the relatedness amongst distant species ? [2.5]
Explain your answer.
b) Define the term: Type strain and Morphovers. [1+1]
c) “Only if two microorganisms also are alike phenotypically does their similar G + C content [2.5]
suggest close relatedness” –Explain this fact.
d) What are intergenic repetitive sequences? How dose it useful to identify any organism? [1.5+1.5]
3. a) Why are the algae called thallophytes ? [2]
b) What do you mean by symbiotic algae? Give an example [1+1]
c) Draw a labelled diagram of *Chlamydomonas sp.* [3]
d) Write down the differences between zoospore and aplanospore. [3]

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