

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

SECOND YEAR [2018-21]
B.A./B.Sc. THIRD SEMESTER (July – December) 2019
Mid-Semester Examination, September 2019

Date : 19/09/19

Time : 11 am – 12 noon

MICROBIOLOGY (GENERAL)

Paper : III

Full Marks : 25

Answer **All** questions of the following:

1. a) Why is lac operon said to be both negatively and positively regulated ? (2)
b) 'Genetic code is degenerate but not ambiguous' – explain. (2)
c) What do you mean by transcription bubble ? (1)
d) Write down the differences between A DNA, B DNA & Z DNA. (2)
2. a) What are 'indicator bacteria' for water quality assessment ? Explain with example. (2)
b) Mention important characteristics of coliform organisms. (2)
3. a) What is casein micelle made up of ? (2)
b) How does rennin coagulate casein ? (2)
c) What do you mean by ropiness of milk ? (2)
d) Name one putrefying bacteria. (1)
4. a) What are idiolites ? Give examples. (2+1)
b) Write down the various features of secondary metabolites found in bacteria. (4)

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