

S.Y. B.Sc. Examination – April 2016
Microbiology

Paper: MI-203 Applied and Environmental Microbiology
Time: 2 Hours

Paper Code: 8399
Total Marks: 75

Instructions: (a) Figures to the right indicate total marks of respective questions.
(b) Draw neat, clean and labeled diagram wherever necessary.

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| 1 | (a) Discuss: Microbial flora of extreme environments and their adaptations. | 09 |
| | (b) Explain any three secondary waste water treatments in detail. | 09 |

OR

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| 1 | (a) Write on: Spoilage of milk constituents by various microorganisms. | 09 |
| | (b) Explain: Industrial production of butter. | 09 |
| 2 | (a) Discuss sources and effects of air pollution with preventive measures. | 09 |
| | (b) Compare and contrast: Food poisoning and food infection. | 09 |

OR

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| 2 | (a) Explain: Food spoilage by radiation, freezing and pressure. | 09 |
| | (b) Discuss: Origin, types and number of air microflora. | 09 |
| 3 | (a) Write on: Microbial flora of fresh fruits and vegetables. | 09 |
| | (b) Explain any three water borne diseases. | 09 |

OR

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| 3 | (a) Discuss: Sources of microbial contamination in milk. | 09 |
| | (b) Explain: Temperature as an environmental extreme. | 09 |
| 4 | Write notes on: | 21 |
| | (a) BOD and COD | |
| | (b) Post pasteurization test | |
| | (c) Heavy metal pollution | |

OR

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| 4 | Write notes on: | 21 |
| | (a) Food spoilage by microbes | |
| | (b) Sauerkraut | |
| | (c) Plant – microbe interactions above the ground | |
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