

B.Sc. Examination
Semester - V

March-2015

Paper Name: Mi-504 – Microbial Ecology & Biodiversity

PaperCode: 4309

Time: 2:30 Hours

Total Marks: 70

Instructions: (a) Figure to the right indicates total marks of respective question.
(b) Draw neat, clean and labeled diagram wherever necessary.

- | | |
|------------------------------------|----|
| 1.(a) Discuss: Biogas production. | 10 |
| 1.(b) Explain: Recovery of copper. | 04 |

OR

- | | |
|--|----|
| 1.(a) Explain: Bioremediation of oil spoilage. | 10 |
| 1.(b) Explain: Fungi as bioindicator. | 04 |

- | | |
|---|----|
| 2.(a) Discuss : The impact of molecular biology on biotechnology. | 10 |
| 2.(b) Explain: Liposome mediated gene transfer. | 04 |

OR

- | | |
|--|----|
| 2.(a) Discuss: Transgenic mouse. | 10 |
| 2.(b) Write a note on: Applications of modern biotechnology. | 04 |

- | | |
|--|----|
| 3.(a) Explain: Metagenomics. | 10 |
| 3.(b) Write a short note on: levels of biodiversity. | 04 |

OR

- | | |
|--|----|
| 3.(a) Discuss: Conservation of biodiversity. | 10 |
| 3.(b) Explain: Unculturable bacteria. | 04 |

- | | |
|--|----|
| 4.(a) Explain: Bioleaching of Uranium with recovery process. | 10 |
| 4.(b) Explain: Biosensors. | 04 |

OR

- | | |
|--|----|
| 4.(a) Discuss: Intellectual Property Rights. | 10 |
| 4.(b) Explain: Significance for production of transgenic plants. | 04 |

- | | |
|--|----|
| 5.(a) Define biodiversity. Explain extinct & endangered species. | 10 |
| 5.(b) Explain: Concern for loss of biodiversity. | 04 |

OR

- | | |
|--|----|
| 5.(a) Explain: Vector mediated & direct gene transfer methods. | 10 |
| 5.(b) Explain: Algae as an indicator of water pollution.. | 04 |