



PS-003-1582002

Seat No. _____

M. Phil. (Micro) (Sem. II) (W.E.F. 2018) Examination

August - 2020

203 - Biodegradation of Xenobiotic Compounds (Elective)

Faculty Code : 003

Subject Code : 1582002

Time : **3** Hours]

[Total Marks : 100]

- 1 Describe in detail parameters influencing the process of biodegradation. 20

OR

- 1** Write a detail note on biodegradation kinetics. **20**
- 2** Describe in detail biodegradation of pesticide giving a suitable example. **20**

OR

- 2** What are nitraaromatic compounds ? Discuss its biodegradation giving an example. **20**
- 3** Write a note on microbial methylation of mercury. **20**

OR

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| 3 | What are radioactive wastes ? Discuss its biodegradation strategy. | 20 |
| 4 | Describe in details various methods of <i>ex-situ</i> bioremediation. | 20 |

OR

- 4 Write a comprehensive note on the application of genetically engineered microbes for the bioremediation of organic pollutants. 20
- 5 Answer the following : (Each of 05 marks) 20
 - (a) Write a note on biodegradation of lignin.
 - (b) Write names of PAHs Briefly describe biodegradation on anyone PAH.
 - (c) Write a short note on acid mine drainage.
 - (d) Write a note on biodegradation of C1 compounds.