



PS-003-1572002

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 : 1572002

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

- 3 What are radioactive wastes ? Discuss its biodegradation strategy. **20**
- 4 Describe in details various methods of *ex-situ* 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.