Ph.D. IN ENVIRONMENTAL SCIENCE (PHDEV)

Term-End Examination

December, 2022

REVE-004 : ENVIRONMENTAL GEOMICROBIOLOGY

Time : 3 hours

Maximum Marks : 100

Note: Answer any five questions out of eight questions. All questions carry 20 marks each.

 Define rocks and minerals. Describe a soil profile with a diagram. Explain the biogeochemical cycle of sulphur, with a diagram. 3+10+7=20
Explain the hydrosphere as a microbial habitat. 20

- **3.** Describe the importance of geomicrobiology in bio-energy production. 20
- 4. Describe the working of TEM (Transmission Electron Microscope), with a neatly labelled diagram. 20
- 5. Explain the role of microbial agents in composting and methane production. 20

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6.	How do microbial activities influence geological	
	processes ? Give examples.	20
7.	Explain the importance of geomicrobiological studies in ecology and environment.	२ 0
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8.	Write an essay on groundwater contamination in	
	India. Explain with a case study.	20