AQ - 838

First Semester M. Sc. (Part-I) (CBCS) Examination

MICROBIOLOGY

(Environmental Microbiology)

Paper - IV

P. Pages: 3

Time : Three Hours]

[Max. Marks: 80

- Note: (1) All questions are compulsory.
 - (2) All questions carry equal marks.
 - (3) Draw diagrams wherever necessary.
- 1. Discuss food chain, ecosystem and community.

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OR

- (a) Explain Role of bacterial technology in achieving sustainable development.
- (b) Discuss the concept of habitat in biosphere.

8

 Explain nitrogen fixation in detail with mechanism of nitrogen fixation.

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P.T.O.

OR

(a)	Describe	nitrogen	cycle.	8
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- (b) Explain Mechanism of nitrogenase. 8
- Describe phosphorous cycle and explain the role of phosphobacter in crop production.

OR

- (a) Describe carbon cycle with general aspects.
- (b) Explain selenium cycle with significance. 8
- Describe biotransformation of arsenic and mercury.

OR

- (a) Explain biotransformation of pesticides. 8
- (b) Explain Microbiology of acid mine drainage.

 Explain biodeterioration of pharmaceutical products and stone work.

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OR

a)	Discuss	leaching	techniques.	

(b) Discuss Applications of bioleaching. 8

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