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(Printed Pages 4)
Roll No. _____

19/1278

B.Sc. (Part-II) Examination, 2019

INDUSTRIAL MICROBIOLOGY

Second Paper

(Environmental Microbiology)

Time : Three Hours

Maximum Marks : 50

Note : Attempt **all** questions. Marks for each question are indicated in the right-hand margin. The answers to short answer type questions should not exceed 200 words and the answers to long answer type questions should not exceed 500 words.

1. Describe broadly the air borne diseases and their control. 10

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19/1278

OR

- Write short notes on the following: 5×2
- (i) Droplet nuclei
 - (ii) Assessment of air quality
2. Give a detailed account of soil microflora and its enumeration. 10

OR

- Write short notes on the following: 5×2
- (i) Rhizosphere
 - (ii) Mycorrhiza
3. Give a detailed account of the mechanism of symbiotic and asymbiotic nitrogen fixation. 10

OR

- Write short notes on the following: 5×2
- (i) 'nif' genes
 - (ii) Nitrogenase complex

2

19/1278

4. Describe briefly the role of microorganisms in Carbon-Cycle In nature. 5

OR

Write short notes on the following: $2\frac{1}{2} \times 2$

- (i) Bioaccumulation
(ii) Biodeterioration

5. Describe in brief the water borne diseases and their control in human beings. 5

OR

Write short notes on the following: $2\frac{1}{2} \times 2$

- (i) Eutrophication
(ii) Solid waste treatment

6. Describe in brief the aerobic and anaerobic methods of waste treatment. 5

OR

Write short notes on the following: $2\frac{1}{2} \times 2$

- (i) Nitrogen-cycle in nature
(ii) Lichens

3

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19/1278

7. Explain briefly the following: $2\frac{1}{2} \times 2$

- (i) Biodegradation
(ii) Frankia

OR

Write short notes on the following: $2\frac{1}{2} \times 2$

- (i) Fresh Water Ecosystem
(ii) Phosphorus-Cycle

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4