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**BR—278—2016**

**FACULTY OF SCIENCE**

**M.Sc. (Fourth Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2016**

**(CBCS Course)**

**BIOTECHNOLOGY**

**Paper BT-XVIII**

**(Environmental Biotechnology)**

**(Tuesday, 22-11-2016)**

**Time : 2.00 p.m. to 5.00 p.m.**

*Time—Three Hours*

*Maximum Marks—75*

*N.B. :—* (i) Attempt All questions.

(ii) All questions carry equal marks.

(iii) Illustrate your answer with suitable diagram wherever necessary.

1. Describe in detail concept of habitat and ecological niches. 15

*Or*

(a) What is food chain ? Explain how energy flow from one trophic level to other. 8

(b) Write a note on nitrogen cycle. 7

2. Give an account of global environmental problem. 15

*Or*

(a) Describe speciation and extinctions. 8

(b) Write a note on stability. 7

3. What is Pollution ? Explain in detail air pollution and its control through biotechnology. 15

*Or*

(a) Give an account of mineral cycles. 8

(b) Describe the measurement and source of water pollution. 7

P.T.O.

4. What is xenobiotics ? Explain decay behavior and degradative plasmids. 15

*Or*

(a) Write a note on oxidation ditch. 8

(b) Explain the treatment schemes for waste water of dairy and antibiotic industries. 7

5. Write short notes on any *three* : 15

(a) Fluctuation

(b) Conservation Strategies

(c) Aquatic Habitat

(d) Trickling filter

(e) IPM.