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**GIET UNIVERSITY, GUNUPUR – 765022**  
M. Sc. (Second Semester) Examinations, September – 2021  
**20LSPC204 – ECOLOGY & ENVIRONMENTAL TOXICOLOGY**  
(Life Science)

Time: 2 hrs

Maximum: 50 Marks

**The figures on the right-hand margin indicate marks.**

**PART – A**

**Q.1 Answer ALL questions**

**(2 x 10 = 20 Marks)**

- a. What is Bioremediation? How it is different from Phytoremediation?
- b. What do you understand by Biomagnifications of pesticides?
- c. What do you mean by survivorship curve? Draw this for human being?
- d. What is cryopreservation? Which materials are usually taken for a measure of conservation?
- e. What is BTEX?
- f. Sorbitol and Monosodium Glutamate are which kind of additives?
- g. What is Leibig's law of minimum?
- h. What do you mean by a cybernetic system? How it is applicable to the living organism?
- i. What is the main carcinogen found in sun light? What its impact on human body?
- j. Mention the name of the element or pollutant bringing minamata disease and Itai- Itai diseases?

**PART – B (6 x 5 = 30 Marks)**

**Answer ANY FIVE questions**

**Marks**

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| 2. Discuss the entire aspect of energy flow in an ecosystem?   | <b>(6)</b> |
| 3. Give an account of Gaia hypothesis?   | <b>(6)</b> |
| 4. Write short notes on the following.   | <b>(6)</b> |
| a. Law of tolerance  |            |
| b. Concept of Limiting factors   |            |
| 5. What are carcinogens? Give a classification of carcinogens and add a note on impact of carcinogens on the human body? | <b>(6)</b> |
| 6. Discuss the terms Ozone depletion and Global warming?   | <b>(6)</b> |
| 7. Discuss about the mode of action of different pesticides? Add a note on the properties of pesticides?                 | <b>(6)</b> |
| 8. What is ecological succession? Give a detail account of succession in hydrosere?                                      | <b>(6)</b> |

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