



Damietta University  
Faculty of Science  
Environmental Sciences Department

First Semester Exam 2023  
Date: 25 January 2023  
Time allowed: 2 hours

**Environmental Biology Examination for SECOND LEVEL of  
Environmental Sciences and Env. Sc. / Chemistry Students' (Course Cod:202 ENV)**

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**Answer All the Following Questions:**

**[90 Marks]**

**Question [1].**

**[25 Marks]**

- (a) Illustrate the ultrastructure and function of a chloroplast. (10 marks)
- (b) What are the biological indicators? Give some examples. (5 marks)
- (c) What are the environmental importances of fungi? Give some examples. (10 marks)

**Question [2].**

**[20 Marks]**

- (a) What are the major types of enzymes? Give some examples. (5 marks)
- (b) Discuss briefly the role of mitochondria during respiration process. (10 marks)
- (c) What are the importances of biogeochemical cycles? (5 marks)

**Question [3].**

**[20 Marks]**

- (a) What are the following terms? Soridia, ADP, NADPH, DNA and RNAs. (10 marks)
- (b) Illustrate the nitrogen cycle. (5 marks)
- (c) What are the major biological domains? Give some examples. (5 marks)

**Question [4].**

**[25 Marks]**

- (a) Illustrate the structure of a virus and mention to its environmental role. (10 marks)
- (b) What are the lichens? Illustrate their environmental role. (10 marks)
- (c) Illustrate the ultrastructure of a mitochondrion. (5 marks)

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*With Best Wishes*

*Examiners: Prof. Talaat A. Hegazy*