



Question [1].

[25 Marks]

- (a) Illustrate the ultrastructure and function of the mitochondrion. (5 marks)
- (b) What are the biological indicators? Give some examples. (5 marks)
- (c) Explain the environmental importance of fungi. Illustrate with drawing: *Saccharomyces*, *Rhizopus* and *Penicillium*. (15marks)

Question [2].

[20 Marks]

- (a) What are the major types of enzymes? Give some examples. (5 marks)
- (b) Discuss briefly the anaerobic respiration and fermentation processes. (10 marks)
- (c) What are the importance of biogeochemical cycles? Give some examples. (5 marks)

Question [3].

First Semester Exam 2024 [20 Marks]

Faculty of Science
Environmental Sciences Department

Date: 21 January 2024
Time allowed: 2 hours

Faculty
Enviro

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

E

Answer All the Following Questions:

[90 Marks]

[20 Marks]

Answer

- (a) What are the following terms ? Soridium, NADPH, Nucleotide, ATP, DNA and FAD. (12 marks)
- (b) Illustrate the biological interrelationships. Give some examples. (5 marks)
- (c) What are the major biological domains? (3 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 chloroplast. (5 marks)

With Best Wishes

Examiners: Prof. Talaat A. Hegazy