

Final term Exam



Department: Zoology

Major: Zoology/Chemistry Course Title: Toxicology & Environmental Pollution

Code number: 409 Z

Mark: 70

Date: 6/1/2025

زار عاره

الإمتحان في صفحتين:

QUESTION ONE:

(20 Mark, 2 each)

- 1: What does environmental toxicology primarily focus on?
- a)The study of non-toxic substances in the environment
- b) The effects of toxic substances on the environment and living organisms
- c) The removal of toxins from the environment
- 2: Bioaccumulation refers to:
- a)The rapid breakdown of toxins in the environment
- b) The gradual build-up of toxins in the tissues of organisms over time
- c) The complete elimination of toxins from an ecosystem.
- 3: What does LD50 stand for in toxicology?
 - a) Lowest Dose with 50% effect
 - b) Lethal Dose with 50% mortality
 - Limiting Dose with 50% tolerance
 - 4: What is the main focus of ecotoxicology?
 - a) The study of toxin- in a controlled laboratory environment
 - b) The effects of toxins on human health
 - cy The effects of toxins on individual species and ecosystems
 - 5: What is the impact of microplastics on terrestrial ecosystems?
 - a) Increase the biodiversity
 - b) Considered a natural resource
 - they can disrupt soil structure and affect soil-dwelling organisms.
 - 6: What is the effect of oil spills on marine ecosystems
 - a) they improve water quality
 - If they can devastate marine habitats and harm marine life.
 - c) they increase habitat richness
 - 7: What is cutrophication?
 - Excessive nutrients in water causing algal blooms and oxygen depletion
 - b) Soil erosion
 - c)Urbanization
 - 8: What is the role of biodegradation in the fate of organic pollutants?
 - a) It increases toxicity
 - b) It breaks down organic pollutants into simpler, less harmful substances
 - c) It promotes eutrophication
 - 9: What is the main concern regarding microplastics in aquatic environments?
 - a)Their role in plant growth
 - b)Their impact on climate change
 - Their ingestion by marine organisms and potential transfer through food chains
- 10: What is the main environmental concern associated with pesticides?
 - A)Their persistence and potential to bioaccumulate in the environment
 - b)Their rapid breakdown
 - c) Their role in plant growth

יב ינ ביצולט - ועניןן . ולפיקו <u>OUESTION TWO:</u>

(20 Mark)

a. Write a short note on air pollution and responses that might occur when living organisms are exposed to toxic pollutants.

b. Explain why knowledge of the fate of plastics is critically important in environmental protection and management.

QUESTION THREE:

(15 Mark)

Outline the regulatory networks currently in existence to control risks linked to toxic pollutants (air- water – and soil) pollution.

QUESTION FOUR:

(15 Mark)

Comment on the importance of wetlands in maintaining biodiversity and list the different main sources of pollution that can affect it.

With Best Wishes

Prof. Dr. Basma Sheta

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