

2023

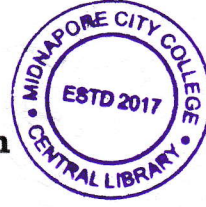
**BFSC 5th Semester Examination**

**( Fish Toxicology )**

PAPER — BFSC-502

Full Marks : 50

Time : 2 hours



*Indrajit*

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

*Candidates are required to give their answers  
in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

1. Answer any **ten** from the following questions :  
2×10=20

- (a) What do you mean by xenobiotic pollutants?
- (b) Briefly mention the different types of toxicology.
- (c) What is poison? How does it differ from venom?

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(Turn Over)

( 2 )

- (g) Differentiate between concentration and dose.
- (e) Write on testing methods for toxicology.
- (f) What is MRL? Give example.
- (g) Write the characteristics of ideal poison.
- (h) Differentiate toxicology from ecotoxicology.
- (i) Define toxicokinetics.
- (j) Define bioconcentration and bioaccumulation.
- (k) Write about the toxicity caused by two metals and two non-metals.
- (l) What do you mean by phyto toxins? Give example.
- (m) Write on alkaloids with example.
- (n) What are mycotoxins? Give example.
- (o) What do you mean by lethal dose?

2. Answer **any six** from the following questions :  
5×6=30

- (a) Classify poisons with suitable examples.
- (b) Write in detail on factors modifying the toxicity.

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(Continued)



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- (c) Write about the diagnosis and treatment of poisoning in fish.
- (d) Briefly discuss the mechanism of toxicodynamics in fish body.
- (e) Give an account of xenobiotic metabolism.
- (f) Shortly discuss about acute and chronic toxicity with examples.
- (g) Write the process of collection and dispatch of specimens in toxicological study.
- (h) Write on drugs used in aquaculture and its toxicity with suitable examples.
- (i) Discuss on LD<sub>50</sub>, EC<sub>50</sub> and MATC.
- (j) Write a note on arsenic toxicity in fish.

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