

2023

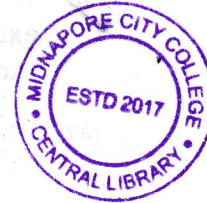
**BFSC 4th Semester Examination**

**Chemotherapy and Drug Administration  
in Aquaculture**

PAPER — BFSC-401

Full Marks : 50

Time : 2 hours



*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 is Chemotherapy? ✓ *Chemotherapy*
- (b) Define therapeutic Index.
- ✓(c) What do you mean by antibiotic resistance?
- ✓(d) What are drug binders? ✓
- ✓(e) Differentiate between drug and medicine. ✓

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(Turn Over)

(2)

- (f) Mention two names of aquaculture medicine to control endoparasites of fish.
- (g) What is disinfectant? Cite an example.
- (h) What do you mean by drug leaching?
- (i) Define drug stabilizer. Give example.
- (j) What are 'banned' drugs? Give two examples from aquaculture aspects from India.
- (k) Define vaccines. Give two names of fish vaccines used in aquaculture.
- (l) What do you mean by dose-response relationship?
- (m) What are the main ingredients of algicides?
- (n) What do you mean by biologics?
- (o) Define immunostimulants with examples.
2. Answer any six from the following questions :  
6×5=30
- (a) Briefly narrate the routes of drug administration in fish.
- (b) Classify the Anti-Microbial Agents (AMA) and their functions.

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(Continued)

(3)

- (c) Write a note on Minimum Inhibitory Concentration.
- (d) Write the mode of action of any antibacterial agent.
- (e) Briefly discuss on flesh colour enhancers.
- (f) How are vaccines prepared? Write its mechanism of action.
- (g) Write the importance of hormones in aquaculture.
- (h) Differentiate between the terms antiseptics and disinfectants.
- (i) Discuss the law related to use of aquaculture drugs.
- (j) Write down the structure and properties of materials used in advanced drug delivery system.

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