



QP CODE: 21100968



21100968

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, MARCH 2021

Fourth Semester

B.Sc Zoology Model II Aquaculture

**Vocational Course - ZA4VOT08 - MICROBIOLOGY, PATHOLOGY AND POST
HARVEST TECHNOLOGY**

2017 Admission onwards

5A152503

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Give a brief account on Thermophilic and psychrophilic bacteria.
2. What is TPC?
3. What is the objective of Gram's Staining?
4. What is death stiffening?
5. Name two pathogenic bacteria found in fish.
6. Comment on Slow freezing and quick freezing.
7. What is freezer burn?
8. What is panelling?
9. Write a brief note on Colombo curing.
10. Briefly explain any two value added product from fishes.
11. Write a brief note on Dactylogyrosis, symptoms and treatment.
12. Briefly explain chemical hazard with examples.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Explain different growth phases of bacteria relating to a bacterial growth curve.
14. Explain faecal indicator organisms and their significance.
15. Give a brief account on the biochemical composition of fish.
16. Distinguish between Chilling and Freezing. Comment on their advantages and disadvantages.
17. Comment on drip loss. Explain different measures to minimise drip loss.
18. Comment on Canning and its advantages. Explain Can cooling.
19. Elaborate common defects in cured products.
20. Explain IHNV and WSSV diseases.
21. Write a note on any two fungal diseases of fish.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. What is sterilisation? Give an account of different sterilisation techniques used in microbiological studies.
23. Explain the structure and functioning of different types of freezers.
24. Give an account on the preparation and uses of different Fishery byproducts.
25. Which are the common crustacean parasites of fishes? Explain the damages caused and control measures.

(2×10=20)

