

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURE AND FOOD SCIENCES

YEAR III SEMESTER 2 EXAMINATION FOR THE DEGREE OF ANIMAL SCIENCE

AAS 3326: Fish Farming And Production

MAIN EXAMS

DATE: APRIL, 2025

TIME: 2 HOURS

INSTRUCTIONS: Answer Question ONE and Any Other TWO Questions.

QUESTION ONE – 30 MARKS

1. Differentiate the following terms

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|---|---------|
| I. Systemic and Parenteral treatment | 2 marks |
| II. Monogenean and Digenean parasites | 2 marks |
| III. Bisexuality and hermaphroditism reproduction | 2 marks |
| IV. Fish larvae and fry | 2 marks |

2. Explain how Fish farming contributes to the Sustainable Development Goals (SDGs).

3 Marks

3. Describe two methods of organic fertilizer application in an earthen pond

4 marks

4. State four benefits of hatchery fingerlings production

2 marks

5. List four environmental methods of prevention and control of fish diseases in aquaculture

2 marks

7. Explain four factors to consider before using chemical treatment in aquaculture

3 marks

8. List four impacts of shallow fish ponds on production

2 marks

9. State four important of liming in aquaculture 3 marks

10. List four fish disease diagnostic features 3 marks

QUESTION TWO

1. Discuss three causes of fish disease in aquaculture 6 marks

2. Discuss aquaculture managerial practices that help prevent fish stress 8 marks

3. Describe three procedures used in the final processing of fish product 6 marks

QUESTION THREE

1. Discuss artificial propagation of African catfish on fingerlings production 8 marks

2. Discuss four prevention methods of drug resistance in fish health management 8 marks

3. Discuss the importance of pond fertilization in aquaculture 4 marks

QUESTION FOUR

1. Discuss four desirable characteristics of aquaculture-cultured fish species 8 marks

2. Explain prevention and control of aquatic weeds in aquaculture 6 marks

3. Describe vertical and horizontal transmission of infectious agents into fish farming 6 marks

QUESTION FIVE

1. Discuss the advantages of farming tilapia fish species 4 marks

2. Describe five ways of improving dissolved oxygen content in fish pond water. 8 marks

3. Discuss five logical sequences a farmer should follow when constructing a fish pond.

8 marks