

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN
ANIMAL SCIENCE**

ANSC 265: AQUACULTURE

STREAMS: ANSC Y2S2

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 18/04/2018

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- **Answer all questions in section A and any two in B**

SECTION A (30 MARKS)

- Distinguish between
 - Tilapia and cat fish. (2marks)
 - Plankton and Neuston community. (2 marks)
 - Maternal and biparental incubation. (2 marks)
 - Describe the following terminologies
 - Substrate spawning (2 marks)
 - Mouth brooding (2 marks)
- Describe the following terminologies as applied in aquaculture;
 - Planktivores (2 marks)
 - Detritivores (2 marks)
 - Outline various environmental conditions required by fishes. (2 marks)
 - State various breeding stages associated with induced spawning. (2 marks)
 - Highlight various pituitary glands conditions required for hypophysation. (2 marks)
 - Describe one preparatory and two decisive doses method of hormonal administration in hypophysation. (2 marks)

3. (a) Describe caging system in fish farming. (2 marks)
- (b) Describe monk as pond drainage system. (2 marks)
- (c) Highlight characteristic of fresh fish carcass. (2 marks)
- (d) Describe chemical based techniques of fish preservation. (2 marks)
- (e) Describe environmental challenges experienced by deep sea fishes. (2 marks)

SECTION B (40 MARKS)

4. (a) Discuss attributes influencing fish species selection for culturing. (10 marks)
 - (b) Discuss factors influencing feed requirements in cultured fishes. (10 marks)
 5. (a) Discuss factors influencing establishment of a fish pond. (10 marks)
 - (b) Discuss factors influencing fish processing. (10 marks)
 6. (a) Discuss factors influencing induced fish breeding. (10 marks)
 - (b) Discuss factors influencing spread of fish diseases. (10 marks)
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