

CHUKA



UNIVERSITY

UNIVERSITY SUPPLEMENTARY/SPECIAL EXAMINATIONS.

SCOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
SCIENCE IN ANIMAL HEALTH AND PRODUCTION

ANSC 265: AQUACULTURE

STREAMS: ANSC Y2S2

TIME: 2 HOURS

DAY/DATE: FRIDAY 14/09/2018

8.30 A.M -10.30 A.M

INSTRUCTION:

- Answer ALL question in Section A and Any TWO in B

1. a) Describe the following fishery types;
 - i) Culture
 - ii) Small-Scale
 - iii) Industrial
 - iv) Artisanal

[4 Marks]
- b) Highlight benefits of Cichlidae (tilapines) species

[2 Marks]
- c) Outline the following terms as applied in aquaculture
 - i) Maternal incubation
 - ii) Biparental incubation
 - iii) Substrate spawning
 - iv) Mouth brooding

[4 Marks]
2. a) Highlight attributes of cultured fish

[2 Marks]
- b) Describe the following fish culture;
 - i) Monoculture
 - ii) Monosex culture
 - iii) Polyculture or composite fish culture
 - iv) Mixed sex polyculture

[2 Marks]
- c) Define the following terminologies as applied in aquaculture
 - i) Aquaria species
 - ii) Brood stock
 - iii) Fish Hatchery

- iv) Hatchery production system [2 Marks]
- d) Distinguish between the following sites [1 Mark]
Geophore and aquaphore site

- 3. a) Describe characteristics of a fresh fish carcass [1 Mark]
- b) Highlight fish preservation using salt [2 Marks]
- d) List signs of unhealthy fish [2 Marks]

- 4. a) Describe facilities used in handling live fish [2 Marks]
- b) List two zones in deep sea [2 Marks]
- c) Describe environmental challenges of deep sea fish species [2 Marks]
- d) Briefly a method used by deep sea fishes to overcome environmental challenges such in the above [2 Marks]

SECTION B - [40 MARKS]

- 5. a) Discuss importance of fish [10 Marks]
 - b) Describe factors influencing fish feed intake [10 Marks]

 - 6. a) Explain in details pond preparation [10 Marks]
 - b) Describe hormone administration methods in fish [10 Marks]

 - 7 a) Discuss fish environmental conditions [10 Marks]
 - b) Discuss fish marketing in Kenya [10 Marks]
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