



BOWEN UNIVERSITY
(of the Nigerian Baptist Convention)

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE
AGRICULTURE PROGRAMME

COURSE CODE:	ANF 220	COURSE TITLE:	Aquaculture and Introduction to wildlife
COURSE UNIT:	2	TIME:	2 HOURS
SESSION :	2022/2023	SEMESTER:	SECOND SEMESTER

INSTRUCTION: Answer any four (4) questions, each question carries equal marks

SECTION A

1. a. Define aquaculture with specific examples (10 marks)
- b. List and explain at least seven (7) objectives of aquaculture (15marks)
2. a. Discuss the aquaculture production system and states its merits and demerits (12marks)
- b. Enumerate the aquaculture culture techniques based on number of species. (13marks)
3. List and explain the aquaculture culture techniques based on rearing facilities. (25marks)

SECTION B

4. A woman attended a seminar and was informed about how African catfish production is thriving in Nigeria. In the seminar, the pond design for catfish production was only limited to earthen pond. 3 months after the seminar, the woman decided to apply what she learned at the seminar on an old 2-plot land (which is now bushy).
 - a. Enumerate the steps she would take in constructing the pond. (5 marks)
 - b. She discovered that the land was good for her pond construction.
 - i. List the soil tests she carried out. (2 marks)
 - ii. What signs did she observe from each test that made her conclude that the land was good? (8 marks)
 - c. Discuss briefly on 5 accessories of the pond she later constructed. (10 marks)
- 5a. With the aid of a diagram, explain the food supply in ponds. (13 marks)
- b. Write short notes on Oligotrophic, Eutrophic and Dystrophic ponds. (6 marks)
- c. Discuss briefly on:
 - i. Biological oxygen demand of an aquatic body to increase. (3 marks)
 - ii. Causes of algal bloom and its effect on aquatic life. (3 marks)
6. a. Enumerate the goals and demerits of introducing exotic fish species in local/inland water bodies. (10 marks)
- b. A group of fish was fed for 5 weeks. The total amount of feed offered on a dry weight basis is 150g per fish. The increased average weight was from 150g to 250g. Determine the :
 - i. FCR and FCE (6marks)
 - ii. Comment on the value of FCR and FCE above in respect to feed utilization and body weight gain (4marks)
- c. State the water quality requirements of *Clarias gariepinus* of the parameters stated below.
 - i. pH ii. Ammonia iii. Temperature iv. Dissolved Oxygen (5 marks)