



**NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF AGRICULTURAL SCIENCES
DEPARTMENT OF ANIMAL SCIENCE & FISHERIES
EXAMINATION QUESTIONS (January, 2017)**

COURSE CODE: AFM 317

COURSE TITLE: FISH HEALTH MANAGEMENT (2 CREDIT UNIT)

INSTRUCTIONS: Answer question one (compulsory) and any other three. Please note that question one carries 25 marks (Total: 70 marks)

Time Allowed: 2 Hours

1. Write short note on the effect of the following protozoans in fish production and the feasible treatment/control measures (25 marks)
 - i. *Ichthyophthirius multifiliis*
 - ii. *Chilodonella*
 - iii. *Hexamita*
 - iv. *Trichodina*
 - v. *Piscinoodinium*
2. Write briefly on the three nematodes of importance in fish farming in Nigeria (15 marks)
3. Discuss in detail the life history of Acanthocephalans (15 marks)
4. (a) List three major ecological effects of parasites on fish (3 marks)
(b) Briefly explain four types of physiological damage that can be caused by fish parasites (12 marks)
5. (a) Discuss three categories of non-infectious diseases of fish (9 marks)
(b) Briefly discuss the reproductive strategies and method of attachment of the two genera of monogenean trematodes to the host fish (6 marks)
6. Assuming you are a farm manager in charge of a fish farm, how will you determine sick fish and what factors will you consider for immediate remedy? (15 marks)