



**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja**  
**Faculty of Agricultural Sciences**  
**October/November, 2016**

**COURSE CODE: AFM317**

**COURSE TITLE: FISH HEALTH MANAGEMENT (2 UNITS)**

**DURATION: 2 HRS**

**INSTRUCTIONS:** i. Answer FOUR questions in all  
ii. All questions attract equal marks **(25 MARK EACH)**

1a. Copper sulfate is an excellent compound for control of external parasites in fish, what are the necessary cautions to take when using this compound for fish external parasites treatment?

1b. In brief explain how salt can be used to control protozoan in fish.

2. Describe any (5) five flagellated protozoan and explain in detail (2) two how they affect fish.

3a. Draw a life cycle of *I. multifiliis*.

3b. Write a short note on Cestodes, *Ergasilus* and *Argulus*.

4a. Parasites affect fish health by causing various damages name then and explain one (1).

4b. What do you understand by the environment is pristine?

4c. Your farm is infected by this parasite Ichthyophthiriasis (Ich), what is the best treatment to eradicate this disease in your farmed fish?

5a. How does Viral Infection and Bacterial Infection enter into the body?

5b. Elucidate in detail how will you treat fish infected with parasite before consumption?

6a. Non infectious diseases can be broadly categorized 3. Name them and explain 2.

6b. As aquaculturists what is the significant of fish diseases to your business.

6c. How will you preventing ich disease in your fish tank or pond?