



**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**National Open University of Nigeria**  
**Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja**  
**Faculty of Sciences**

**DEPARTMENT OF PURE AND APPLIED SCIENCES**

**2020\_2 EXAMINATION...**

**COURSE TITLE: PARASITOLOGY**

**CREDIT UNIT: 2**

**COURSE CODE: BIO 411**

**TIME ALLOWED: 2 HOURS**

**INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS**

1. a. No biological association is of greater medical importance than parasitism. Explain. **5marks**
  - b. In a single statement, differentiate between a Necessary Risk Factor and a Disease Causal Agent. **2marks**
  - c. i. Outline the concept of parasitic disease transmission. **4marks**
    - ii. List the extrinsic factors or variables that determines disease transmission and patterns. **2marks**
    - iii. List the demographic factors for disease manifestation in a definitive host **2marks**
  - d. i. State any five aims of epidemiology. **5marks.**
  - ii. Enumerate any five tools for measurement or description of epidemiological studies. **5marks**
2. a. What is Disability Adjusted Life Years (DALYs)? **5marks**
  - b. Using Malaria as an example, explain the factors that increases the burden of diseases over time? **5marks**
  - c. Explain the economic implication(s) associated with a disease. **5marks**
3. a. What is Acanthocephala? **5marks.**
  - b. Enumerate the characteristic features of acanthocephala. **5marks.**
  - c. State the pathogenicity, epidemiology and management of acanthocephala. **5marks.**

4.
  - a. In a short note, what do you understand by Nematodes? **5marks.**
  - b. State the characteristic features of Nematodes. **5marks.**
  - c. Highlight the epidemiology and management of nematodes. **5marks.**
  
5.
  - a. Outline the characteristic features of protozoans. **5marks.**
  - b. State, with examples, the basic taxonomic characters/groupings of protozoans. **6marks.**
  - c. Flatworms are broadly divided into two classes. Explain, with examples, each of these classes. **4marks.**