



National Open University Of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi - Abuja
Faculty of Science

OCTOBER/NOVEMBER 2016 EXAMINATION

COURSE TITLE: PARASITOLOGY

COURSE CODE: BIO 411

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS

1. (a). What is a host? (2 marks)
(b). Give **one** named example of the following groups of parasites: Protozoa, nematodes
Acanthocephalans, Arthropods (4 marks)
(c). Distinguish very clearly between the following pair of terms:
(i.). Parasitology and Epidemiology (5 marks)
(d). List any **eight** branches of Parasitology (4 marks)
(e). Briefly explain any **five** of the branches listed in (d) (10 marks)
2. (a). Enumerate **four categories** of parasitism and give two named **examples** of each category. (8 marks)
(b). Distinguish very clearly between host-specificity and host selection in host-parasite relationship,
(c). Discuss the terms commonly used to define host selection
(7 marks for b and c)
3. (a). With the aid of a **schematic diagram**, briefly discuss the transmission of parasitic diseases (10 marks)
(b). List **ten** aims of epidemiology (5 marks)
4. (a). What is the major distinguishing feature of the life cycle of ancanthocephalans that differentiate them from leeches and arthropods? (5 marks)
(b). Differentiate the characteristic biological features of trematodes and cestodes (5 marks)
(c). Using a schematic diagram, discuss the life cycle of *Polymorphus* spp. (5 marks)
5. Briefly explain the following:
(i) Disability Adjusted Life Years (DALYs) (5 marks)
(ii) Loose associations (10 marks)
6. Discuss the life cycle of human *Plasmodium* spp with the aid of a **schematic diagram** (15 marks)