



LEAD CITY UNIVERSITY, IBADAN
Faculty of Sciences
Department of Microbiology/Biology

COURSE PARTICULARS

Course code: ZOO 411

Course Title: Principles of Parasitology

No. Of Units: 3

Status: Compulsory

LECTURERS DETAILS

Name: Agboola, A.O

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Area of Specialization: Zoology, Public Health Parasitology

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COURSE DESCRIPTION

The basic concepts and models of hidden areas in parasitology, but also provides the minimal background relevant for the understanding of the biological features of parasites and the principles in the spread and control of parasitic diseases. To also explain the mode of parasitic infection and its consequences in the hosts and eradication of parasitic diseases.

COURSE OBJECTIVES:

By the end of the course, students would have been able to understand the basic elements of parasitology as well as the pathology and pathogenesis of parasitic infection, diagnosis control and eradication of parasitic diseases.

ASSESSMENT

Class Attendance	10 marks
Tests and Assignments	20 marks
Final Examination	60 marks

TEACHING PLAN:

WEEK 1-- Revision: Parasites, Hosts, Animal Associations and Parasitology.

WEEK 2/3-- Transmission of Parasites and Parasitic Diseases

WEEKS 4/5-- Parasite Evolution and Adaptations.

WEEKS 6 Epidemiology of Parasitic Diseases

WEEK 7 Pathology and pathogenesis of Parasitic Diseases

WEEKS 8/9- Diagnosis of Parasitic Diseases.

WEEK 10/11 Control of Parasitic Diseases.

WEEKS 12- W.A.S.H. and W.E.S

WEEKS 13- Revision

Recommended text: Otubanjo, O.A. (2008) Elements of Parasitology Second Edition. Panaf Publishing Inc. Abuja 196pp

Ukoli, F.M.A. (1990). Introduction to parasitology in Tropical Africa. Texflow Limited, Ibadan. 462pp.

Tutorial Questions

Section A

1. Write a concise essay on Animal Associations, explaining the types and giving appropriate examples.
2.
 - a) What is *Transmission*?
 - b) State the seven principles guiding transmission and fully three of them.
3.
 - a) Define *Epidemiology*?
 - b) Explain the geographical distribution of diseases.
4. Explain the principles employed in identifying and controlling the cholera outbreak of London in 1854.

Section B

- 5a. Highlight six factors which influenced host specificity.
- b. Describe five types of Parasite Adaptations.
- c. Briefly describe the term “host insusceptibility”
- 6a. The host can regulate the degree or intensity of infection in an established host- parasite relationship through immune system, Justify this statement.
 - b. With the aid of diagram describe the different host defences of Vertebrates
- 7a. Enumerate six determinants of Host Immunity.
 - b. Define the term host Specificity
- 8a. Briefly explain herd immunity.
 - b. Explain the host specificity in digenetic Trematodes.

Section C

9. Explain the following terms with two relevant examples
 - a. Host
 - b. Definitive Host
 - c. Intermediate Host
 - d. Zoonotic Disease
 - e. Vector
 - f. Vehicle
 - g. Carrier
10. Explain the three models of disease causation with appropriate diagrams to back explanations
11. A. List and explain six factors which influence exposure and infection

B. Explain the three possible outcomes of infection

12. Explain the meaning of the term Diagnosis under the following :

a. Clinical Diagnosis

b. Microscopic and Parasitological Diagnosis

c. Molecular Diagnosis- expatiate on the three types of molecular diagnosis

d. Rapid Diagnostics Tests