



ELIZADE UNIVERSITY, ILARA-MOKIN, ONDO STATE, NIGERIA

**BASIC & APPLIED SCIENCES
BIOLOGICAL SCIENCES
SECOND SEMESTER EXAMINATION
2016/2017 ACADEMIC SESSION**

**COURSE CODE: BIO 414
COURSE TITLE: PARASITOLOGY
DURATION: 2 HOURS**

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HOD'S SIGNATURE

NAME:.....MAT.No:.....

INSTRUCTIONS: Answer any two (2) questions from section A and one question from section B

SECTION A

1. (a) Parasitology is the study of parasites in all their ramification. Write succinctly on three fields on which parasitology is rooted.

(b) *Schistosoma haematobium* cause major diseases in developing world particularly in environment in which people thread in water infested with the parasite:

Describe a detailed life cycle of *Schistosoma haematobium*.

2. (a) List and discuss any two factors that determine the susceptibility of host to parasitic diseases.

(b) *Ascaris lumbricoides* is a helminth to which children in particular are vulnerable could be diagnosed microscopically in the laboratory.

Employing your laboratory experience, describe how the worm can be diagnosed microscopically.

3. (a) Describe the role of *Schistosoma haematobium* infection in the aetio-pathogenesis of cancer of the urinary bladder of susceptible host.

(b) Malaria is endemic in Nigeria and most areas of the tropics of Sahara Africa.

Indicate three reasons for its occurrence and illustrate meaningful ways to reduce or eliminate it.

SECTION B

1 (a) Explain the term ``Antigenic variation``

(b) List and discuss the general and physical barriers to parasitic invasion and establishment.

(c) Describe the two categories of Host Protection.

2 (a) Explain how genetic resistance to parasitic infection occur in animals and give examples of such animals.

(b) Describe with specific examples the various kinds of parasites and parasitic relationship existing among organisms