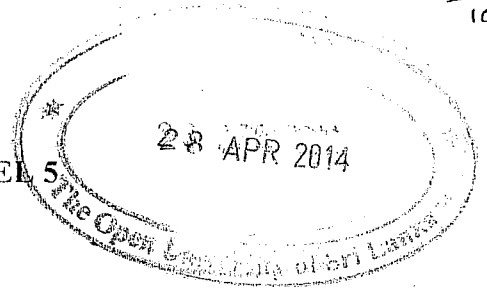


THE OPEN UNIVERSITY OF SRI LANKA
B.Sc./B.Ed. DEGREE PROGRAMME 2013/ 2014 – LEVEL 5
PARASITOLOGY - ZLU3184 / ZLE5184
NO BOOK TEST 1
DATE: 25th FEBRUARY 2014
TIME: 4.15 PM – 5.15 PM



REGISTRATION NO.

PART B (60 marks)

2.0 Write answers within the space provided.

2.1 Name the disease caused in human by each of the following parasites. [6 marks]

Trypanosoma brucei :

Trypanosoma cruzi :

Leishmania donovani:

2.2 Match the descriptions given below with one or more of the following life cycle stages:

Amastigote; Promastigote; Epimastigote; Trypomastigote.

[10 marks]

Shape is spherical and lacks a free flagellum:

Undulating membrane present:

Kinetosome is at anterior end of body:

Kinetosome is at posterior end of body:

2.3 Explain why the relationship between humans and *T. brucei* is described as parasitic.

[5 marks]

Contd.

2.4 Identify the type of life cycle of *T. brucei*, giving reasons for your answer. [3 marks]

2.5 Categorise *T. brucei* based on the following aspects and justify your answers. [9 marks]

a) Level of its dependency on the human:

b) Duration of time spent in the human:

c) Location exploited in the human:

2.6 Describe an adaptation exhibited by *T. brucei* to evade host's immune mechanisms. [3 marks]

2.7 Characterize the extrinsic incubation period of *T. brucei*. [4 marks]

Contd.

2.8 Draw the lifecycle of *T. brucei* in a line diagramme to show the sequence of development and its host/s. [10 marks]

2.9 Describe two (02) factors of the habitat that promote the survival and existence of the vector of *T. brucei*. [6 marks]

2.10 Which parasite stage and biological specimen of an infected person would you microscopically observe to establish a diagnosis of *T. brucei* in the laboratory? [4 marks]

Parasite stage:

Specimen:
