

Sci/15/116/0048

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DEPARTMENT OF ZOOLOGY AND ENVIRONMENTAL BIOLOGY
2018/2019 HARMATTAN SEMESTER EXAMINATION

APZ 401 -- APPLIED PARASITOLOGY

INSTRUCTION: Answer any THREE THEORY Questions AND THE ONLY PRACTICAL QUESTION

Time allowed: 2 Hours 30 Minutes

THEORY

1. Discuss the disease Dracunculiasis under the following headings:
 - a. The morphology of the causative agent
 - b. The life-cycle of the causative agent
 - c. The treatment and control

2. (a) Define the following epidemiological terms:
 - (i) Prevalence (ii) Intensity.
 (b) 1mg of faecal sample from each school child of a primary school in Oru, Ogun State, was examined for *Ascaris lumbricoides* eggs, and the following were recorded:

Age group (years)	No examined	Egg count
3 – 5	101	5, 2, 10, 9, 15, 1, 5, 27, 30, 1, 3, 6, 8, 10, 11, 13, 31, 50, 15, 16, 8, 12, 19, 1, 1, 3, 5, 5, 10, 15, 22
6 – 8	123	57, 10, 3, 3, 1, 21, 72, 9, 7, 5, 5, 7, 9, 13, 6, 27, 2, 2, 19, 4, 2, 2, 1, 1, 11, 13, 21, 32, 11, 1, 2, 1, 1
9 – 12	133	10, 2, 1, 1, 53, 17, 13, 22, 3, 5, 5, 3, 3, 1, 1, 4, 4, 16, 30, 21, 21, 27, 2, 1, 3, 7, 3, 5, 6, 3, 7, 1, 1, 3, 9, 8, 9, 5, 3, 12, 15

- (i) Calculate the total prevalence of infection.
 - (ii) Calculate the prevalence of infection according to age group.
 - (iii) Calculate the intensity of infection according to age group.
 - (iv) Calculate the total intensity of infection.
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3. In a tabular form, list the *Eimeria* species of importance indicating their predilection site and severity of infections in the following:
 - a. Coccidiosis in Ducks
 - b. Coccidiosis in Chickens
 - c. Coccidiosis in Turkeys

 4. Write briefly on human amoebiasis under the following headings:
 - (a) Epidemiology (b) Sustainable preventive and control measures.

PRACTICALS

5. (a) Observe, draw and label specimens A and B.
- (b) Mention the scientific name, definitive host and vector of each specimen.