

**CARMEL COLLEGE OF ARTS, SCIENCE & COMMERCE FOR WOMEN,
NUVEM-GOA**

SEMESTER END EXAMINATION, AUGUST 2020

Semester: VI Course name & Code: Course name & Code: ZOC-110 Parasitology
Total marks: 30 Date: 05/08/2020 Duration: 02 hrs. Total No of pages: 02

Instructions: 1. All questions are compulsory
2. Figures to the right indicate marks allotted to the question.
3. Illustrate your answers wherever necessary.

Q1. Answer any **five** of the following. (2X5= 10)

- a. What unique adaptations help the Candiru in its parasitic habit?
- b. A man consumed raw bulbs of water chestnut, following which he had chronic diarrhea and mild anemia. Make a tentative diagnosis of the causative organism and comment on its infective stage.
- c. Identify which of the listed parasites is not an endoparasite: *Pediculus humanus*, *Taenia solium*, *Fasciolopsis buski*, *Schistosoma haematobium* and *Hymenolepis nana* and why?
- d. Comment on the mode of infection of *Ancylostoma duodenale*.
- e. Given below are two images. Identify the organism as parasite, parasitoid, predator, commensal or prey and differentiate between the two organisms.



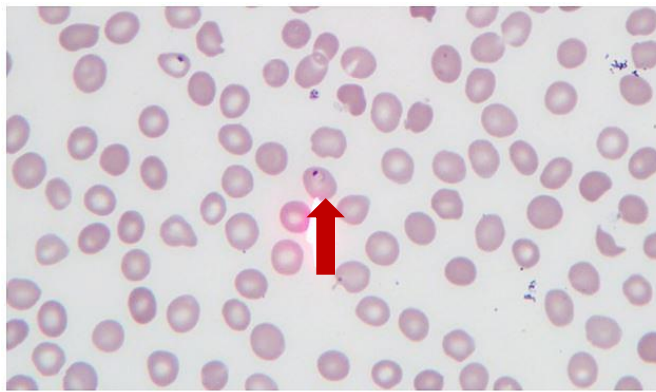
- f. What is a vector? Explain with an example. Differentiate between mechanical and biological vector.
- g. List out four characteristics of typical amoebic intestinal ulcer.
- h. Draw a neat labelled diagram of Leptomonad and Leishmanial form of *L. donovani*.

Q2. Answer any **four** of the following.

(5X4= 20)

- i. Describe the morphological features of *Ascaris lumbricoides* with supporting illustration.
- ii. A male patient was admitted with 3 day history of fever, chills, and night sweats, approximately two weeks after returning home from a trip. When thin smear preparation was done, patient's red blood cells contained a delicate ring form in a "headphone" arrangement.

Based on the above observations, identify the protozoan parasite, diagnose the disease, and with a help of diagram, discuss asexual phase of its life cycle.



Delicate ring form with a central chromatin dot inside a red blood cell

- iii. What are the impacts of a parasite on host?
- iv. A patient recorded abdominal discomfort and diarrhea alternating with constipation. During the diagnosis of the patient, flatworms were found during the stool test, 10-15 cms in length, 1mm in diameter, scolex has 4 circular suckers. Identify the given flatworm, draw the lifecycle and give prophylactic measures.
- v. Submit an account on the pathogenesis of intestinal Amoebiasis.
- vi. You have found that your pets are infested with ticks and mites. What measures will you take towards the treatment and control of ticks and mites.