

**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.