

BOWEN UNIVERSITY, IWO
COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE

2022/2023 FIRST SEMESTER EXAMINATION
PAB 305: INTRODUCTORY NEMATOLOGY

Answer questions **one** and any two others.

Time allowed: 2 hours 20 minutes

1. (a) (i) List any five orders in the class Phasmidea and give an example each (5 marks)
(ii) Describe the digestive and respiratory system in nematode (10 marks)
- (b) i. List any five important common plant parasitic nematodes (5 marks)
ii. Describe in details the following nematodes;
 - Cyst nematode (5 marks)
 - Root lesion nematode (5 marks)
2. Briefly describe the following parasitic nematodes and give examples
 - i. Insect parasitic nematodes (10 marks)
 - ii. Animal nematode parasites (10 marks)
3. In a tabular form, write the disease caused, distribution, definitive host(s), intermediate host(s) and adult stage location in man of the following nematodes'
 - a. *Loa loa* (5 marks)
 - b. *Strongyliodes Stercoralis* (5 marks)
 - c. *Mansonella perstans* (5 marks)
 - d. *Dracunculus medinensis* (5 marks)
4. Write short notes on the following methods of controlling plant nematodes
 - i. Cultural method (5 marks)
 - ii. Regulatory method (5 marks)
 - iii. Physical method (5 marks)
 - iv. Chemical method (5 marks)
5. Some plant parasitic nematodes are known to inhabit Nigerian soils causing damage to crops, describe any **four** (4) stating their biology, distribution and economic importance. (20 marks)