

BOWEN UNIVERSITY, IWO
COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE
PURE AND APPLIED BIOLOGY PROGRAMME

2021/2022 FIRST SEMESTER EXAMINATION
PAB 305: INTRODUCTORY NEMATODOLOGY

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

Time allowed: 2 h 20 min

1. (a) Give ten characteristics of a nematode (10 mks)
- (b) Give five characteristics of Aphasmidea (5mks)
- (c) (i) Enumerate any five (5) characteristics of plant parasitic nematodes (5 mks)
(ii) List any ten (10) genera of plant parasitic nematode that you know stating their common names (10 mks)
2. (a) Briefly describe the following parasitic nematodes and give examples
 - i. Insect parasitic nematodes
 - ii. Animal nematode parasites
 - iii. Plant-parasitic nematodes (20 mks)
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. *Trichinella spiralis*
 - b. *Dracunculus medinensis*
 - c. *Brugia malayi*
 - d. *Ancylostoma braziliense*
 - e. *Toxocara canis* (20 mks)
4. 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 mks)
5. (a) Discuss any two methods of controlling nematodes that you know (10 mks)
(b) Describe the method of extraction of free-living Nematodes from soil (10 mks)