

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
SCHOOL OF AGRICULTURE AND AGRICULTURAL TECHNOLOGY
DEPARTMENT OF FORESTRY AND WILDLIFE TECHNOLOGY
2019/2020 SESSION, HARMATTAN SEMESTER EXAMINATION
FWT 513: FOREST & WILDLIFE PESTS, DISEASES AND FOREST PROTECTION
INSTRUCTION: Answer ALL Questions from Section A and 2 question from Section B
Time: 2 hours 30 Mins

SECTION A

1.
 - a. Differentiate between the clinical signs of rabies and anthrax in wild animals. (3.5 marks)
 - b. List the control measures of tuberculosis in apes. (3.5 marks)
 - c. What is vehicular transmission of diseases in wildlife. (3.5 marks)
 - d. Write short notes on poisoning in wild animals. (3.5 marks)
 - e. Differentiate between vasculogenic shock and anaphylaxis. (3.5 marks)

2.
 - a. List five (5) ectoparasites of wildlife. (3.5 marks)
 - b. List two (2) drugs each for the control of:
 - i. *Ancylostoma caninum* in *Crocuta crocuta*. (3.0 marks)
 - ii. *Fasciola hepatica* in *Syncerus caffer*. (3.0 marks)
 - c. Write short notes on:
 - i. Parasitic zoonoses. (2 marks)
 - ii. Zooanthroponoses. (2 marks)
 - iii. Splenomegaly. (2 marks)
 - iv. Septicemia. (2 marks)

SECTION B

3.
 - a. State the mode of transmission of Powdery Mildews. (1^{1/2} mark)
 - b. Complete the table by stating the symptoms for each of the diseases listed below;

S/N	NAME OF FOREST DISEASE	SYMPTOMS	
i	Root Disease	1..... 2..... 3.....	3 marks
ii	Dwarf Mistletoe	1..... 2..... 3.....	3 marks
iii	Cankers	1..... 2..... 3.....	3 marks
iv	Rusts	1..... 2..... 3.....	3 marks
v	Leaf Spots	1..... 2.....	2 marks
vi	Powdery Mildews	1..... 2.....	2 marks

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45. a. State the common causes of disease in tropical trees growing in Forestry and Wildlife Technology Botanical Garden (5 marks)
- b. Enumerate 3 main indicators of a diseased flora in protected areas (3 marks)
- c. State the causal organism in Heart Rot disease in tropical trees (1^{1/2} mark)
- d. State 2 mode of transmission of Heart Rot disease (2 mark)
- e. State 2 symptoms of Heart Rot disease (4 mark)
- f. State 2 ways of controlling Heart Rot disease in protected areas (2 marks)
46. a. Distinguish between Primary invaders and Secondary invaders of insect pest of woody Species and state examples (3 mark)
- b. Mention 5 factors accountable for establishment of insect pests in Tropical forest. (5 mark)
- c. List 10 ways in which insect pests of tree crops can be reduced in Africa. (9^{1/2} marks)