

**FIJI NATIONAL UNIVERSITY****College of Agriculture, Fisheries & Forestry****School of Agricultural Sciences****TDWP & VA First Year Second Trimester– 2017****ENT 405 : Pests of Wood Products****Time Allowed: 3.00 hours plus (10 minutes reading time) Total Marks: 50****INSTRUCTIONS:**

1. This paper consists of **six** pages including **two** pages Answer Sheet.
2. Please check to see that all your answer script is complete.
3. Answer all the Objective Type Questions on the Answer Sheet and Descriptive Type Questions in the Answer Booklet only.
4. **No** written or printed material and mobile phones are allowed in the examination hall
5. Marks allocated for each question appears at the side of each question so allocate your time accordingly.
6. This paper is divided into Two parts. First part contains Objective Type Questions which has four Sections – A, B, and C. All questions in this part are compulsory. Second part is Descriptive Type which has **six (6)** questions. Attempt only any **five (5)** questions from this part.

I. OBJECTIVE TYPE QUESTIONS (20 Marks)**To be answered only on the Answer Sheet.**

Section A: Fill in the blanks. (10 Marks)

Section B: Multiple choice Questions. (5 Marks)

Section D: Write True or False. (5 Marks)

II. DESCRIPTIVE TYPE QUESTIONS (30 marks)

There are **six (6)** descriptive type questions provided, please **attempt any five (5) questions only** and write on the Answer Booklet. Answer every question from a new page to facilitate evaluation.

Student ID No.:

Date.....

I. OBJECTIVE TYPE QUESTIONS

Time: 45 Minutes

Total Marks: 20

A. Fill in the blanks.

(10x1=10 Marks)

1. Entomology is the branch of science deals with-----
2. Mites have-----pairs of legs.
3. ----- is largest order in animal kingdom.
4. There are ----- classes under Phylum Arthropoda.
5. More than----- species are described under order Coleoptera.
6. Formosan type of termites are nicknamed as -----
7. A reproductive may live for----- years
8. A queen reproductive may produce about ----- eggs per day.
9. Estimated number of species on earth are-----
10. The total number of described species on the earth-----

A. Multiple choice questions: Select the correct answer.

(10x0.5=5 Marks)

1. The total number of described insect species-----

A.	1,00,000	B.	3,00,000
C.	2,00,000	D.	4,00,000

2. The size of smallest mite is-----

A.	0.06 mm	B.	0.9 mm
C.	0.09 mm	D.	0.6 mm

3. Estimated number of species in ocean are-----

A.	2.4 million	B.	2.5 million
C.	2.6 million	D.	2.2 million

4. Insects belongs to class-----

A.	Chilopoda	B.	Insecta
C.	Diplopoda	D.	Arachnida

5. The number of termite workers in a colony varies from

A.	50,000-60,000	B.	40,000-50,000
C.	30,000-40,000	D.	20,000-30,000

6. Termite belongs to order-----

A.	Diptera	B.	Hemiptera
C.	Isoptera	D.	Hymenoptera

7. Grasshopper belongs to order-----

A.	Hemiptera	B.	Thysanoptera
C.	Isoptera	D.	Arthropoda

8. The body of the insects belongs to class Arachnida divided in to-----parts

A.	4	B.	3
C.	2	D.	1

9. Termite have ----- type of mouth part.

A.	chewing	B.	sponging
C.	siphoning	D.	Piercing and sucking

10. Insect have -----pairs of antennae

A.	3	B.	1
C.	4	D.	2

C. Write 'True' or 'False'.

(10x0.5=5Marks)

1.	The body of insect is 20 segmented	
2.	Centipedes belongs to class Chilopoda	
3.	The head of termite soldier is smaller than body	
4.	Centipedes have poison gland	
5.	The latin word Entomon means Insect	

6.	Subterranean termite damages mostly residential goods	
7.	The soldiers performs workers function in termite colony in absence workers	
8.	Flies belongs to order Diptera	
9.	The workers in termite colony lack compound eyes.	
10	The reproductive in termite colony are poor fliers	

II. Descriptive type Questions

(30 Marks)

Note: Attempt Any FIVE Questions Only. All carries equal SIX marks.

1	Describe the characters of phylum Arthropoda and classes of Arthropoda.	(6)
2	Discuss the biology, feeding habit and types of termites.	(6)
3	Discuss the biology and types of marine borers in detail.	(6)
4	Discuss the borers of wood products in detail.	(6)
5	Discuss the principals of forest insect management.	(6)
6	Discuss the biology and management of bark beetle.	(6)

The End

Date:

Marks obtained:

Name:

Student ID No.:

TDWP & VA First Year Second Trimester– 2017

ENT 405 : Pests of Wood Products

I. Objective Type Questions - Answer Sheet

Time: 45 Minutes

Total Marks: 20

A.	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		
B.	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		

C.	1.		
	2.		
	3.		
	4.		
	5.		
	6.		
	7.		
	8.		
	9.		
	10.		

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