## **FACULTY OF SCIENCE**

## DEPARTMENT OF BOTANY AND PLANT BIOTECHNOLOGY

MODULE BOT0087 SCIENTIFIC METHODS

CAMPUS APK

**EXAM 2018 SUPPLEMENTARY** 

DATE: SESSION:

ASSESSOR: DR A OSKOLSKII

INTERNAL MODERATOR: MRS J WILLIAMSON

DURATION: 2 HOURS MARKS: 50

NUMBER OF PAGES: 2 PAGES

INSTRUCTIONS: ANSWER ALL THE QUESTIONS.

REQUIREMENTS: EXAM BOOK

## **BOT0087 – SCIENTIFIC METHODS SUPPLEMENTARY**

## **QUESTION 1**

Study the microslide of *Dais cotinifolia* wood and answer the questions:

1.1	Name the mounting medium and its solvent used for preparation of this microslide.		(4)
1.2	Identify the following wood traits:		
	1.2.1. Ring-porous wood or diffuse-porous wood.		(3)
	1.2.2. Perforation plates simple or scalariform.		(3)
	1.2.3. Intervessel pits scalariform, opposite or alternate.		(3)
	1.2.4. Rays exclusively uniseriate, exclusively multiseriate, or both.		(3)
	1.2.5. Rays consist of only procumbent cells, or square/upright ray are also abundant.	cells	(3)
QUEST	TION 2		
Mention the information which must be recorded when an anatomical sample is collected in the field.		mple	(10)
QUEST	TION 3		
Suppo	se you need to study the anatomical structure of onion roots.		
3.1. Which is the method of examination that can be suitable for this study?		y?	(6)
3.2. Mention the most important steps of sample preparation required for this examination			(15)
	т	OTAL	[50]