

# PTP1501 SECOND PAPER

May/June 2018

## Introduction to Plant Production

Duration

2 Hours

100 Marks

**EXAMINERS:** 

FIRST SECOND MR MC MAKUNGU DR N NOGEMANE

#### Closed book examination.

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This examination paper consists of 4 pages

#### **ANSWER ALL THE QUESTIONS**

### Instructions:

- Write your student number and all other information required on each answer book you use
  An additional answer book may be obtained from the invigilator when the first book is full
- Read each question carefully before you answer it
- Use the same numbers for your answers as those used for the questions in the examination paper
- All answers must be written in the Answer Book.
- · Make sure that your hand writing is neat and easy to read
- Read the warning about irregularities on the other side of the answer book

# **QUESTION 1**

QUESTION I	
(a) Use a concise explanation to define photosynthesis	(5)
(b) What are the factors that affect the rate of photosynthesis? List them.	(10)
	[15]
QUESTION 2	
Explain the following terms using short sentences	
(a) Gymnosperms	(2)
(b) Monocotyledons	(2)
(c) Dicotyledons	(2)
(d) Coleoptile	(2)
(e) Coleorhiza	(2)
	[10]
QUESTION 3	
(a) What are the functions of water in plants? Please explain	(6)
(b) How does water move from the soil right through to the moment it	
evaporates into the air? Please describe the process bearing in mind that this forms part of the transpiration stream	(6)
(c) Define osmosis	(2)
(d) Define diffusion.	(2)
(e) What is the difference between a turgid cell and flaccid cell? Explain.	(2)

[TURN OVER]

[TURN OVER]

**TOTAL MARKS: 100** 

UNSA 2018