Name :	Centre/Index No
School:	. Signature:

P515/2 PRINCIPLES AND PRACTICES OF AGRICULTURE Paper 2 Theory

3 hrs

STANDARD HIGH SCHOOL ZZANA

Uganda Advanced Certificate of Education

Principles and Practices of Agriculture

THEORY

Paper 2

3 hours

INSTRUCTIONS TO CANDIDATES

This paper consists of sections A, B, C, D and E.

Answer question I in section A and four other questions, selecting one from each of

sections B, C, D and E.

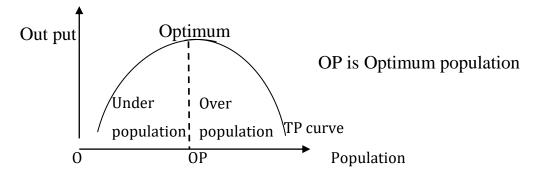
Any additional question(s) attempted will **not** be marked.

Turn Over

SECTION A: (20 marks)

Question 1 is Compulsory

- 1. (a) What is meant by population policy? (02 marks)
 - (b) The figure (1) below shows the relationship between population and agricultural production. Use it to answer questions below. (02 marks)



- (c) Explain how
 - (i) Optimum population comes about and how it is determined.

(03 marks)

- (ii) Under population comes about and how it is determined. (03 marks)
- (iii) Over population comes about. (02 marks)
- (d) Explain the consequences of an ageing population. (12 marks)

SECTION B: CROP PRODUCTION (20MARKS)

2.	(a)	Outline four benefits of mushroom growing	(04 marks)
	(b)	Describe the factors that are necessary for oyster mushroom cul	ltivation. (09 marks)
	(c)	Explain the challenges that face mushroom production.	(07 marks)

3. Describe how you can establish and manage a crop of passion fruit up to harvesting. (20 marks)

SECTION C: ANMIAL PRODUCTION (20 marks)

4.	(a)	Give reason for keeping the lamb and ewe in the lambing pen.	(05 marks)
	(b)	Describe how to manage a chilled lamb using warm water.	(05 marks)
	(c)	State the management practices on sheep required for mating.	(10 marks)
5.	(a)	Enumerate five causes of swarming in apiary production.	(05 marks)
	(b)	How can farmers take care when handling bees?	(05 marks)
	(c)	Identify the parameters for record keeping during apiary manag	ement. (05 marks)

SECTION D: MECHANISATION (20 marks)

6.	(a)	Explain the conditions required for success of draft technology. (09 marks)	
	(b)	Describe the management practices carried out on traction anim	als. (06 marks)
	(c)	What are the advantages of using animal drawn implement	(05 marks)
7	Outline five dangers of friction in farm machines. (05 mark		(05 marks)
	(a)	With the aid of a diagram, explain how the following farm mac used to perform a named farm work.	hines can be
		(i) Wheel barrow for manure transportation.	(06 marks)
		(ii) Wheel and axle for water drawing from a dug well.	(06 marks)

(b) In case a wheel of radius *50cm* and axle of radius *10cm* is used to lift a water container of *400N* with an effort of I00N.

Calculate the following;

(i)	Its velocity ratio	(01 mark)
(ii)	Its mechanical advantage	(01 mark)
(iii)	Its efficiency	(01 mark)

SECTION E: ECONOMICS (20 marks)

- 8. (a) Explain the roles of the following in agricultural development. (10 marks)
 - (i) National Agricultural Advisory Service (NAADS).
 - (ii) National Agricultural Research Organization (NARO).
 - (b) Identify the bottlenecks affecting development of Agriculture. (10 marks)
- 9. (a) Explain why there is persistent instability in the prices of agriculture commodities. (12 marks)
 - (b) Suggest recommendations to stabilize agricultural market prices.(08 marks)