Name:		Index No:	
Signature:			
P515/1 Principles and F of Agriculture July/August 201 2 Hours			
	Uganda Advance PRINCIPLES AND PI	CK EXAMINATIONS 2019 d Certificate of Education RACTICES OF AGRICULTURE Paper 1 ours 30 Minutes	
 For section A provided at t 	questions in this paper. , write the letter corres _l he right-hand side.	ponding to the best alternative in the box itten in the spaces provided.	
	SECTIO	ON A (30 MARKS)	
before being A. improve B. enable ea C. economis	mixing of livestock feed incorporated. The reas the palatability of the fo sy grinding. se the proportion of the he toxin (soyin)	eed.	
2. The following A. Tobacco B. Groundr	whitefly	iral pathogens EXCEPT C. leaf hoppers D. cotton stainers	
A. Infectiou B. African s C. Crazy ch	e following livestock dis s bursal disease (Gumb wine fever in pigs. ick disease in poultry. t fever in cattle.	seases is a protozoan disease? oro) in poultry.	
A. (NH ₂) ₂ C B. NH ₄ NO ₃ C. (NH ₄) ₂ SC			

5. One of the following is NOT a benefit of draining water logged soils.

A. Reducing soil acidity

B. Neutralising the soil acidity.C. Increasing soil microbial activity.

D. Enabling better respiration in the tissues.

6.	A feed weighing 800g was provided to an animal. The feed had the following proportions of nutrients (with their corresponding digestibilities):				
	Nutrient (in g) Carbohydrates Fats Proteins Calculate the to A. 70	500 100 200	stibility (%) 60 80 70 nts (TDN) as a po C.77.5	ercentage of the whole feed. D. 80	
7.	A. Modifying p B. Killing some C. Improving t	are benefits of liming oH of the pond water e bacteria in the pond the microbial activity he acidity of the pon	rs. d in the pond.	EPT	
8.	Which of the fo	llowing sources of e B. wind	nergy is non-ren C. Biogas	ewable? D. fossil fuels	
9.	O	s 0.5 tonne is lifted the nergy attained by the B. 2500J	O	height of 2m. Determine D. 100J	
10.	Most of the wat A. colon	ter fed upon by the r B. omasum	uminant animal C. Reticulum	is absorbed in the D. rumen	
11.	While swimmir A. Pectoral fins	ng, the fish balances is B. caudal fir	-	-	
12.	production? A. Breeding dis B. Marketing o C. Educating th	sease-resistant variet of farmers' produce	ies.	ch institutes in Agricultural	
13.	12 units. When		o 1500/- per uni	per unit, the quantity bought, the quantity bought falls or the commodity. D. 0.75	t is
14.	Which of the fortree? A. Fibrous root B. Possession of	t system	C. Tap 1	eguminous agroforestry root system use branching	
15.	A. Encouraging B. Killing path C. Providing gr	•	-	ion of mushrooms may be f	or

16. Nutrient synergism means that presence of A. promotes the presence and utilisation B. Inhibits the presence and utilisation of C. Increases acidity of the soil.D. Increases alkalinity of the soil.	n of another nutrient.	
17. Which of the following insect pests attack A. The sweet potato weevil B. The African army worm	ring cultivated crops is NOT a defoliator? C. The orange dog D. The diamond back moth	
18. In the processing of crystalline sugar from the clarification stage in order toA. remove impurities which inhibits theB. Increase the volume of juice.C. Drive off the excezs water.D. Facilitate the formation of molasses.		
19. Stainless steel is an alloy ofA. Iron and carbonB. Iron and manganese	C. Iron, chromium and nickel D. Iron and tungsten	
20. Which of the following are the recessive to A. green seeds, yellow pods C. Rob. Yesllow seeds, green pods	<u> </u>	
22. The enzyme in yeast that catalyses the condioxide is A. sucrose B. diastase		
A. sucroseB. diastase23. Which one of the following is NOT an agrA. Milk-processing plant	,	
B. Fruit-processing plant24. Which of the factors below is considered at the constitution?	D. Maize milling machinery as an output in the the production	
function? A. skilled labour force B. feeds provided to the animals.	C. milk yield from the animals. D. fertilizers applied in the garden.	
25. Alleloparthy refers to some plants product A. hormones that promote growth. B. flowers that are wind-pollinated. C. chemicals that prevent other plants from the plants		

3 : 40 respectively. If the solution to be more proportions would be A. 375 <i>l</i> of chemical + 5000 <i>l</i> of water. B. 3 <i>l</i> of chemical + 4997 <i>l</i> of water.	d with water before s ade measures 5000 li	1 7 0	
 C. 349<i>l</i> of chemical + 4651<i>l</i> of water. D. 375<i>l</i> of chemical + 4625<i>l</i> of water. 			
27. A fertiliser is labelled NPK, 20:10:15, me The remaining 55% is referred to as	O	omposition is 45%	⁄о Г
A. active ingredientB. inert ingredient	C. toxic material D. liming material		
28. When partially dried grains are stored, the development of micro organisms known	as	·	the
A. staphylococcus B. aflatoxins		D. escherichia	
29. Zoonotic diseases are transmitted from an contaminated animal products. Examples		0	
A. East coast fever B. Coccidiosis	C. Foot and mouth D. brucellosis	disease	
30. The yolk of chicken is fertilized in the A. Uterus B. isthmus C. magnum	D. infundibulum		
SECTION P.			
SECTION B (70 Marks)		
31. (a) State why concrete is a good building m			
	naterial. (5 mks)		
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32. (a) State the differences between ruminants and non-ruminants regarding the following; (5mks)

	Ruminants	Non-ruminants
Saliva		
Digestion in the stomach		
Absorption of water		
Source of body energy		
Absorption of food		
(b) State the factors that	affect the digestibility of feeds ir	n animals. (5mks)

a) State the	hardy-Weinberg principle of population genetics.	(1 mł
•••••		
••••••		••••••
o) The prin where	nciple above is represented mathematically as $p^2 + 2pq + q^2 = 1$	= 1
p represer	nts:	
q represer	nts:	
(c) State fi	ve conditions under which the hardy-weinberg principle ca	n be fulfille
•••••		•••••
ı) State any	y five qualities that are desired in a variety of a crop seed.	(5 mks)
•••••		•••••
•••••		•••••
•••••		•••••

(b) St	ate four methods of protecting crop seeds against insect damage.	(4 mks)
		••••••
•••••		•••••
(c) §	State the meaning of the term "certified seed."	(1 mk
•••••		
35. (a) Ex	plain the meaning of the following as applied in crop production. (5mks)
(i)	Biological pest control	••••••
(ii)	Translocated herbicides	
 (iii)	Polyphagous pest	
	7181	
(iv)	Residual pesticide	
•••••		
(v)	Legislative pest control	
•••••		••••••
······	That the arrange through which are discours are transmitted	
(b) :	State the avenues through which crop diseases are transmitted.	(5mks
•••••		

	EX] a)	mode of action.	(10mks)
1	 b) 	pre-harvest period	
	••		
(2) 	active ingredient	
((b 	pesticide formulation	
(e) 	range of ability	
37. ((a)	Explain why water in a fish pond should be flowing in and out.	(2mks)
	(l	o) State the importance of adequate light in a fish pond.	(2mks)
	(0	e) What is eutrophication in fish ponds?	(2mks)
	(0	d) State the dangers of eutrophication in fish pond.	(4mks)