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P515/1 PRINCIPLES AND PRACTICES OF AGRICULTURE Pag	per 1 July/August 2019 2 ½ HOURS

INTERNAL MOCK EXAMINATIONS 2019 UGANDA ADVANCED CERTIFICATE OF EDUCATION PRINCIPLES AND PRACTICES OF AGRICULTURE

Instructions to candidates

- This paper consists of sections A and B
- Attempt all questions in this paper
- For section A, write answers for the best alternatives in the box provided in capital letters.
- For section B write answers in the spaces provided.
- No additional sheet(s) of paper should be attached.

	For examiners use only				
SECTION	Mark	Initials of examiner			
А					
SECTION B					
No. 31					
No. 32					
No. 33					
No. 34					
No. 35					
No. 36					
No. 37					
Total					

SECTION A (30MARKS)

- 1. The of a closed season is not an effective method of controlling American boll worm in cotton because the boll worm;
 - A. Undergoes dormancy and can survive during the closed season
 - B. Is well adapted to survive in adverse conditions
 - C. Has a large number of alternative hosts D. Produce many eggs which enable it to survive
- 2. Brass is used in moving parts of machines because it....
 - A. Does not wear easily
 - B. Is a good conductor of heat
 - C. Is a good conductor of electricity
 - D. Is resistant to corrosion
- 3. Land reform refers to measures aimed at
 - A. Changing land ownership
 - B. Improving land management and use
 - C. Ensuring that everybody owns land government
- ___D. Controlling of land use by
- 4. The figure below illustrates the phenomenon of limiting factors. In this case, what is the limiting factor for photosynthesis?

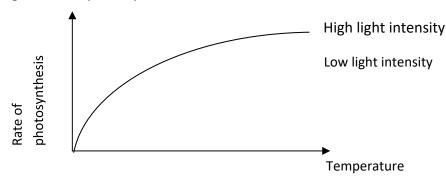


Fig 1.



		Rate of photosynthesis C. Light intensity Temperature D. Carbon dioxide
5.	Wł	nich one of the following would be the result of crossing over in plant breeding?
٥.		Increased variability among species
		Weakening if the dominant genes C. Elimination of some recessive genes
		Increased number if gene mutations among off springs
6.		nive product made by bees from resinous substances picked from plants is referred to
	A.	Royal jelly C. Nector B. Wax D. Propolis
7.	Th	e following activities are done before restocking an old fish pond except
	A.	Building a crib at the inlet corner of the pond
	D	Measuring and marking the nend area
		Measuring and marking the pond area
		Identifying and repairing of leakages
	υ.	Removing mud from the pond.
8.	Ge	nder refers to
	Α.	The biological state of being a male of female
		Visible differences between genital organs
		The way someone feels about being a male of female
		The different social roles of men and women as observed and held by a given group of people
9.	On	e condition that may lead to anemia in piglets is
		Lock of the state of the same to food
	_	Lack of iron in the sow's feed
	В.	Low level of iron in the sows feed
	C.	Feeding the sow on pasture plant only
	D.	Feeding the sow on concentrates only



10. Which of the following process occur when rocks disintegrate by hydrolysis? A. Hydroxyl	
ions in rocks are replace by metallic cations. B. Metallic cations in rocks are replaced by hydroxyl ions	
C. Metallic cations in rocks are replaced by hydrogen ions	
D. Hydrogen ions in rocks are replaced by metallic cations	
11. The fungus that cause browning in cotton lint is transmitted by	
A. Taybergus sp C. Empoasca sp B. Dysdercus spp D. Cryptophlebia sp	
12. The change in allele frequencies in a population as a result of random events is referred to as	
A. Genetic drift C. Deletion	
B. Mutation D. Chromosome mutation	
13. Which of the following are utilizable byproducts resulting from microbial fermentation in the rumen?	
A. Glucose C. Carbon dioxide	
B. Alcohol D. Acetic acid	
14. Which of the following is secondary tillage implements?	
A. Disc plough C. Ox-plough	
B. Disc harrows D. Mould board plough	
15. The following are functions of marketing boards except:	
A. Apportioning dividends C. Bulking storage	
B. Offering credit D. Causes faster growth	
16. The main advantage of using an ultra low volume sprayer is that it	
A. Is cheap C. Is easy to maintain	
B. Sprays a large area at a time D. Is safe to use	
17. The following are causes of post harvest losses in mushrooms production except;	
A. Microbial spoilage	
B. Bruise-induced discolouration bruise-induced discolouration	



	C.	Lack of dry	yers				
	D.	Continued	I maturation and sene	scence of the mus	shro	oom	
18.	Wł	nich of the f	following stages in cel	l division is rerese	nte	d in figures.	
	Fig	12					
	A.	Telophase	: I	C	. A	naphase II	
	В.	Prophase	II	D). N	Metaphase I	
19.	Th	e following	factors influence pow	er output from ar	nima	als except;	
	A.	Yoke used	for hitching				
	В.	Animal ha	ndling by the operator	r			
	C.	Sex of the	animal D. Weather co	onditions			
20.	Wł	nich of the f	following diseases is c	ontrolled from sp	reac	ding by burning the carcus?	
	A.	Food and i	mouth diseases	C. Brucesllosis			
	В.	Anthorax	D. Heart water disea	se			
21.	Wł	nen the pric	ce of meat was 1,500/	= per kilo, a family	v co	nsumed 20kg per month. Whe	n
		-		•	•	month. What is the elasticity of	
	de	mand for th	ne meat?				
		1.33	C. 0.67				
	В.	0.4 D. 0.75	5				
22.	Wł	nich of the f	following correctly de	scribes the green	hou	se effect?	
		_	•	•		oss from the earth's surface.	
	В.	Depletion c	of the ozone layer incr	eases the atmosp	heri	c temperature	



	C.	The earth gives out carbon dioxide which prevents light rays from the sun reaching the earth surface.	
	D.	The action f the CFCs on ozone layer produces heat that increases atmospheric temperature.	
23.		nich of the following sets of vitamins is not necessarily included in the formation of	
		eds for ruminants?	
		A, B, and E C. K, E and D	
	В.	C, B and K D. A, E and D	
24.	The	e funds loaned out to farmers under the poverty alleviation programme in Uganda	
	car	n be classified as;	
	A.	Short term credit C. Medium credit	
	В.	Long term credit D. Agriculture credit	
25.	Pad	ddy rice is able to grow in water logged soil conditions because the plants have	
	A.	Lenticels C. Breathing roots	
	В.	Parenchyma tissue D. A dense mass of root hairs	
26.	Int	ramuscular injection in cattle is best administered in the	
	A.	Hump C. Rump	
	В.	Neck D. Shoulder	
27.	Go	od drainage and ploughing of soil reduces the process of	
		Nitrification C. Denitrification B. Decomposition D. rogen fixation	
28.	A c	ow which lacked milk in its udder at the calving of its calf was diagnosed to have a	
	bra	in damage, which one of the following parts of the brain is most likely to have been	
	aff	ected? A. Pineal body	
	В.	Cerebrum	
	C.	Posterior lobe of the pituitary gland	
	D.	Anterior lobe of the pituitary gland	

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29.		nich one of the following is not a r inter?	necessary condition for the proper fu	nctioning of a	
	A.	The seed bed should be fine	C. Regulates soil temperature		
	В.	The planter should be serviced	D. Neautralises acidity of the soil		
30.	М	oderate moisture levels in the soil	is important because it;		
	A.	Dissolves organic matter			
	В.	Source of water to living organis	ms		
	C.	Regulates soil temperatures			
	D.	Neutralizes acidity if the soil			
		SECTIO	DN B (70MARKS)		
31.a)	Ex	olain three damages caused by ne	ematodes on crops.	(4 ½ mks)	
	••••				
	••••			••••••	
b) St	tate	three ways of controlling nemato	odes in crop plants	(3mks)	
, 5				(21/)	
c) D	esc	ribe now root nodule are formed	on the roots of leguminous plants	(2½mks)	

	(i)	Define the t	erm efficienc	y standards as	used in agricu	lture production	on (2
	 (ii)	Evolain tw	o types of eff	iciency standa	ards used in agi	riculture produ	
,		Explain tw			arus useu iii agi		
,							
	ole 1 sł	•	its per hectar	e and costs of	f production of	a farmer for t	he year 2
	Table	•	its per hectar	e and costs of	f production of	a farmer for t	he year 2
	Table Cro	1	· 			,	Total
	Cro Prof	1 op product	Beans	Maize	Cotton	Simsim	

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c)	Outlir	ne four objectives of using efficiency standards on the farm	(2mk	S
				•
	••••••		•••••	• •
				•
				• •
				•
22 \				•
33.a)	Differ	entiate between a simple machine and a compound machines.	(2mk	5
	••••••		•••••	•
	••••••		••••••	•
	••••••		•••••	•
b) (tline	three uses of simple machines on a modern farm.	(3mks)	•
υ, (Jutillie	three uses of simple machines on a modern farm.	(Simo)	
			••••••	•
				•
c) (i)	Define the term force	(2mks	.)
, ,	<i>,</i>			
				•
	(ii)	Give three ways of applying force on an object.	(3mk	S

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34.a)	Define	the following terms	(3mks)
	(i)	Continuous variation	
	(ii)	Discontinuous variation	
	(iii)	Genetic equilibrium	
b)	Give four	sources of variability in both plants and animals	(4mks)
c)	State thro	ee ways of reducing genetic variation in a population	(3mks)



b) How would you improve on the productivity of a fish pond	(5mks)
26 a) What is a sale as all 222	/2! -\
36.a) What is gender analysis?	(2mks)
b) State four reasons for gender analysis?	(4mks)

c) Give four reasons why women have less access to agricultural credit than men (4mks)

37.a)	Explain four factors that influence the germination efficiency of crops seeds.	
		•••••
b)	Describe how you would carry out a viability test for a seed lot using tetrazolium solution	salt
	Solution	(4mks)
		•••••
c)	Outline two importances of seed dormancy in crop production	(2mks

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END