

NAME:.....COMB:.....

P515/1 PRINCIPLES AND PRACTICIES OF AGRICULTURE PAPER 1 JUNE 2016 2 ½ HOURS

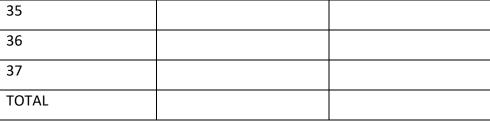
DEPARTMENT OF AGRICULTURE

UGANDA ADVANCED CERTIFICATE OF EDUCATION MOCK 1 EXAMINATIONS, JUNE 2016 PRINCIPLES AND PRATICES OF AGRICULTURE PAPER 1 TIME: 2 HOURS 30 MINUTES

INSTRUCTIONS

- This paper consists of Sections A and B.
- Answer **ALL** questions in both sections.
- For Section A, write answers in boxes provided in Capital letters.
- For Section B, write the answers in spaces provided and not elsewhere.

FOR EXAMINER'S USE ONLY					
QUESTIONS	MARKS	INITIALS			
SECTION A					
SECTION B: 31					
32					
33					
34					



SECTION A (30 MARKS)

- 1. Why is it most convenient to rear fish in rectangular or square ponds? Fish.....
 - A. do not move in circles
 - B. only have a sense of those shapes.
 - C. can easily be caught
 - D. feeds best in such shapes
- 2. In a Bee Colony, Requeening is important to:
 - A. allow proper hatching of eggs
 - B. prevent honey from melting
 - C. make bees to swarm
 - D. to increase production of honey
- 3. When constructing a dairy ban on a site, a machine requires 6250*J* of energy to lift a load of 500*kg* through a vertical distance of 10 metres. The efficiency of this machine can is.....
 - A. 80% B. 65% C. 100% D. 25%
- 4. The best material for making an ox plough share is:
 - A. stainless steel C. soldered steel
 - B. wrought iron D. chilled cast iron
- 5. One of the following goat breeds is best for dual purpose. Which one is it?
 - A. East African goat C. Anglo Nubian goat
 - B. Toggeburg goat D. Saanen goat

6.	At what stage of milking process is a strip cup recommended to be used?						
	Α.	When cows are resting	С.	Before actual milking of cows			
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- Β. After actual milking of cows D. During actual milking of cows
- 7. Diploid condition in cell division is expressed when:
 - Α. somatic cell divides into two daughter cells
 - Β. a germ cell under goes reduction division.
 - C. four daughter cells are formed producing gametes.
 - somatic cell has its full number of chromosomes. D.
- 8. A garden pea plant with white flowers is dominant to one with purple flowers. When a pea plant with white flowers was crossed with those of purple flowers all the offspring in the F₁ generation were white flowered. Which one of the following would be the phenotype of offsprings if the F₁ generation is crossed with the parents having purple flowers?

Α.	2 white and 2 purple	C.	1 purple and 5 white
В.	4 white and 1 purple	D.	3 white and 3 purple

4 white and 1 purple D. 3 white and 3 purple

9. Which of the following factors encourages dentrification?

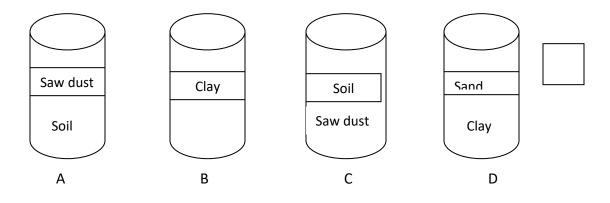
- Α. poor drainage C. low pH
- Β. low soil temperature D. adequate aeration
- 10. Clay and organic matter are colloidal parts of a fertile soil because they:
 - Α. become deflocculated in alkaline soils.
 - can easily become flocculated in acidic soils. Β.
 - C. have adhesion properties.
 - D. are small sized but with a large surface area.
- 11. The graph below represents two products substituting at:





 y_2 Quantity ded

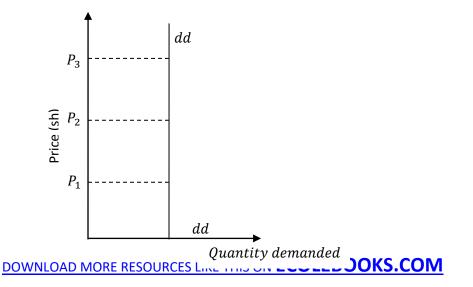
- A. an increasing rate C. an equal rate
- B. a decreasing rate D. diminishing rate
- 12. Which one of the following methods is being employed by NAADS programme to ensure gender mainstreaming in agriculture production?
 - A. Targeting peasants to uplift them from poverty.
 - B. Having 1/3 of farmer representatives being women.
 - C. Facilitating gradual change from Subsistence to commercial production.
 - D. Dealing with only women at parish level.
- 13. When harvesting honey, it is important to leave some honey in the hive because:
 - A. It prevents bees from starving
 - B. Bees might attack all other animals on the farm.
 - C. It allows bee eggs to hatch well.
 - D. It stimulates bees to make more honey.
- 14. Which one of the following is a proper potting medium for coffee cuttings?



15. Farmers should be encouraged to grow upland rice other than paddy rice because it:



- A. has low labour requirement
- B. is only damaged by birds before maturity.
- C. does well below flood line
- D. does not increase weed species in wetlands.
- 16. Why is it vital for an inseminator to use hand gloves when inseminating cows?
 - A. In order not to damage the internal parts.
 - B. To prevent transmission of zoonotic diseases.
 - C. For easy entry of the arm as gloves are slippery.
 - D. So as not to contaminate the reproductive system.
- 17. Which one of the following does not affect hatchability of fertilized eggs?
 - A. turning of eggs C. ventilation
 - B. size of the egg D. humidity
- 18. Land reforms refer to measures aimed at.....
 - A. changing land ownership
 - B. improving land management and use
 - C. ensuring that everybody owns land
 - D. government's intentions to transfer people
- 19. Study graph below that shows the demand curve of eggs on the farm.







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	Whic	ch of the following elasticity of den	nand is illu	strated by the above product?				
	Α.	Elastic demand	С.	Perfectly inelastic demand				
	В.	Unit elasticity of demand	D.	Perfectly elastic demand				
20.	Pasti	ure plants have the highest feed va	lue when	the				
20.	A.	palatability and protein content						
	В.	digestibility and dry matter are	-					
	С.	dry matter and protein content	0	st				
	D.	protein content and digestabilit	-					
21.	Conc	crete posts are recommended for f	encing in a	areas with high moisture conten	t			
	because:							
	Α.	they are cheap	C.	it is not liable to rotting				
	В.	reduce sagging of wires	D.	do not need seasoning				
22.	is the part of an ox plough that stablises the plough when ploughing.							
	A.	Landside	C.	Frog				
	В.	Share	D.	Clevis				
23.	A dis	ease condition of plants which is c	haracteriz	ed by spores and powdery appe	arance			
	on leaves is							
	A.	mildew	C.	damping off				
	В.	leaf spot	D.	cankers				
24.	Which of the following hormones causes ripening in bananas?							
	A.	Cytokinin	C.	Abscisic acid				
	В.	Giberellin	D.	Ethylene				
25.	Whic	Which one of the following is a practice where trees, shrubs and crops are grown						
	toge	ther?						
	A.	Taungya farming	C.	Agrosilvi pastoral				
	В.	Alley cropping	D.	Agrosilvi culture				





- 26. How do enzymes increase the speed of a reaction? They.....
 - A. increase the concentration of products.
 - B. change endergonic to exergonic reaction
 - C. lower activation energy requirements
 - D. add activation energy requirements.
- 27. The percentage of population of animals at a risk of becoming sick with a disease in an outbreak is.....
 - A. mobility rate C. mortality rate
 - B. epizootic rate D. population mortality rate

28. Marling is majorly done within the soil in order:

- A. improve drainage C. improve texture
- B. decrease acidity D. make it fertile
- 29. Njeru stock farm has an average daily temperature of 98.6°F. Evaluate its temperatures in centigrade.

Α.	26.72° <i>C</i>	C.	37° <i>C</i>
В.	37.9° <i>C</i>	D.	92.5° <i>C</i>

- 30. Black polythene mulch improves growth of pineapples by:
 - A. stopping leaching of nitrogen
 - B. raising the temperature of the soil.
 - C. providing inorganic nutrients
 - D. controlling growth of weeds.

SECTION B (70 MARKS)

Write answers in spaces provided.

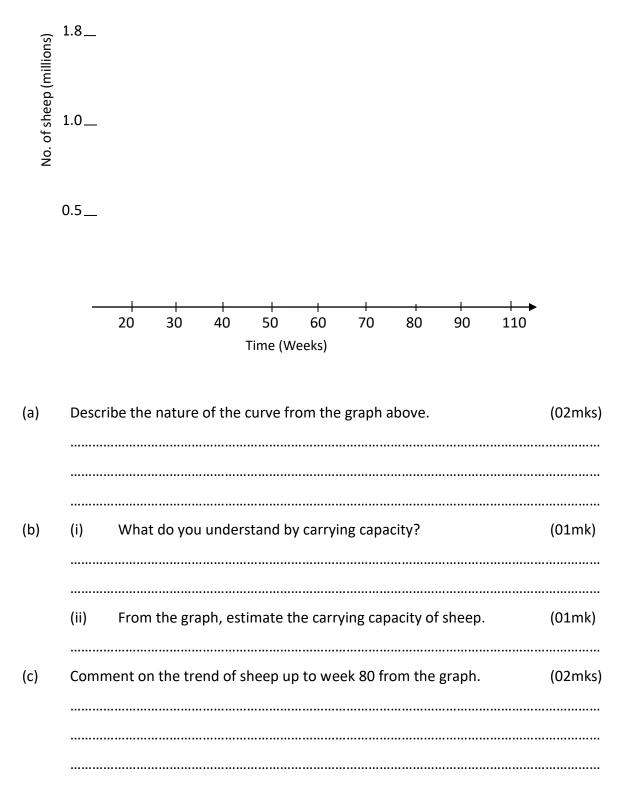
31. The graph below shows changes of carrying capacity in wild sheep on an island during 10 years following their introduction on a large piece of land in Buikwe. Study it and answer the questions below.













	(d)	Identify any four (4) density dependant factors that affected the population of			
		sheep from the study.	(04mks)		
32.	(a)	Define the term Damping off.	(02mks)		
	(b)	Outline any 4 environmental factors that may predispose seedlings to dumping off.	(04mks)		
	(c)	State any 4 signs of diseases in crops caused by viruses.	(4mks)		



34.	(a)	Give the meaning of the following terms:					
		(i) 	Heterosis	(01mk)			
		 (ii) 	Epistasis	(01mk)			
		 (iii)	Cloning	(1mk)			
	(b)	and c Whei	cucumber plants tend to vary their leaf shapes normally desc ovate leaved and their height, being tall and dwarf. In linear leaved tall cucumber plants were crossed with ovate Imber plants. All the offsprings in the F ₁ generation were line ts.	leaved dwarf			
		-	g suitable symbols, work out the phenotypic ratio of the offsr				
		from	a cross between two plants of the F ₁ generation.	(05mks)			



	(c)	 During the experiment, when plants from F1 were crossed with each other following results were obtained: 918 linear – leaved tall plants. 297 ovate – leaved tall plants 301 linear – leaved dwarf plants. 102 ovate leaved dwarf plants. State one conclusion from these results. Explain your answer. 	r, the (02mks)
35.	(a)	State and explain the factors to consider when selecting wood for constru	cting
		farm structures.	(04mks)
	(b)	Give advantages and disadvantages of using wood compared to metals.	(06mks)
		Advantages	





[Disadvantages	
•		

36.	(a)	Distinguish between soil reaction and cation exchange capacity. (02m	ks)
			••••
			••••
			••••
	(b)	Explain the effects of applying compost manure which is not properly rotten	
		to soil. (04m	ks)
			••••
			••••
	(c)	Explain the effect of low and high pH on phosphorous availability in the soil.	
		(04m	ks)
			••••





37.	(a)	Explain six recommended disease preventive measures on poultry farms. (06mks)

(b) Suggest any four practices that lead to worm infestation of poultry in deep litter house. (04mks)



<u>END</u>