ANESTAR SCHOOLS JOINT EXAMINATIONS AGRICULTURE (MARKING SCHEME) END YEAR EXAM – 2019 FORM ONE

1.	Give four factors entailed in agriculture as a art.	(2mks)	
	- Tilling of the land		
	- Construction of farm structures		
	- Measuring distance		
	- Machine operations		
	- Harvesting of crops		
	- Feeding and handling animals		
	 Marketing of agricultural produce 		
2.	Differentiate between oleriulture and promoculture.	(2mks)	
	 Olericulture – growing of vegetables 		
	 Pomology – growing of fruits 		
3.	Name four methods of farming.	(2mks)	
	- Mixed farming		
	- Nomadic pastoralism		
	- Shifting cultivation		
	- Organic farming		
	- Agro-forestry		
4.	State four ways by which agriculture contributes to national development.(4mks)		
	 Provision of raw materials to industries 		
	 Sources of capital for further expansion 		
	 Provision of market for industrial goods 		
	 Provision of employment directly or indirectly 		
	 Earns the country foreign exchange 		
	- Provision of taxes to the government to finance national	development programmes	
	e.g. schools		
5.	State four factors that lead to low crop production.	(2mks)	
	- Low level of education		
	- Poor health		
	- Poor economy		
	- Lack of market force		
	- Poor government policy		
	- Cultural and religious belief		
6.	Name four biotic factors influencing agricultural production negatively.		
		(2mks)	
	- Pests		
	- Parasites		
	- Pathogens		
_	- Predators		
7.	State four effects of high temperature on crop production.	(4mks)	
	- Increases evaporation leading to wilting of crops		
	 Increases rate of growth/hasten maturity of crops 		
	- Improves quality of crops such as pineapples		
-	- Increases incidence of disease infection and pest infestati	•	
8.	Name three forms in which soil water exists.	(1 ½ mks)	
	- Superfluous water		
	- Capillary water		
	- Hygroscopic water		

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9. Li - -	st four physical weathering agents in the soil formation process. <i>Water</i> <i>Moving ice</i>	(2mks)			
-	Wind temperature				
	The diagram below represents farm tools and equipments. Study them and answer the questions that follow.				
a.	Identify the tool / equipment J, K and M. J - Watering can K – Milking churn or can M - Mason's trowel	(1 ½ mks)			
b.	State one use for each of the tool/equipment labeled K and L. <i>K</i> – used for holding milk in transit / storage <i>L</i> – Used for driving and removing nails	(2mks)			
-	Give two maintenance practices for the equipment labeled K. <i>Cleaning after use</i>	(2mks)			
- 11. St -	Sterilization after use ate four maintenance practices of a jack plane. Cleaning after use	(2mks)			
-	Tightening screws and nuts Oiling/lubricating Sharpening the blade Replacing the broken handles				
-	ame four complementary tools and equipments. Hypodermic needle and syringe Trocar and canula	(2mks)			
a.	<i>Elastrator and rubber ring</i> tate the correct use of each of the following tools. Tin snip – <i>cutting thin metal sheets</i> Cold chisel – <i>cutting thick metal sheets</i>	(2mks)			
	tate four reasons for proper care and maintenance of farm tools and e	quipments. (2mks)			
-	To increase durability				
-	To reduce the replacement cost				
-	Increased efficiency				
-	To avoid injury to the user				
-	To avoid damage to the tool				
15. S	tate four factors that influence the number of secondary cultivation do				
		(2mks)			
-	Size of planting materials				
-	Slope of the land				
-	The moisture content of the soil				
-	Condition of the soil after primary cultivation				
16 0	For easy harvesting of root crops tate four reasons for ridging.	(2mks)			
10. 5	Encourage tuber expansion	(2111KS)			
_	Control soil erosion				
_	Improve drainage				
_	For easy harvesting of root crops				
- 17 פ	tate four practices that encourage minimum tillage.	(2mks)			
17. 3					
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	- Use of herbicides				
	- Mulching				
	- Cover cropping				
	- Slashing/uprooting /grazing animals on weeds				
	- Timing cultivation				
	- Restricting cultivation to the area where seeds are to be planted.				
18.	Below is a diagram showing a method of drainage. Use it to answer questions that follow.				
10.	a. Identify the method.	(1/2			
	mks)	(72			
	- French drain				
		rainago			
	b. Other than the above method name three other methods used in d	-			
	On an ditabas (severals	(1 ½ mks)			
	- Open ditches/canals				
	- Underground drain pipes				
	- Cambered beds				
	- Pumping				
	- Planting appropriate trees e.g. eucalyptus				
	- Breaking hard pan				
	 Outline four reasons for draining farm land. 	(2mks)			
	- To improve soil aeration				
	- To improve soil microbial activity				
	- To improve soil structure				
	 To eliminate accumulation of toxic substances/ to remove toxic substances/ 	bstances.			
	- To reduce soil erosion				
	- To increase soil volume				
	- To raise soil temperature				
19.	Name three non-chemical methods of water treatment.	(1 ½ mks)			
	- Filtration				
	- Boiling				
	- Sedimentation				
	- Decantation				
20.	State four advantages of trickle irrigation.	(2mks)			
	- Require little amount of water				
	- Use water under low pressure				
	- Discourage fungal diseases				
	- Control weeds between rows				
	- Can be used to apply soluble fertilizers				
21.	State three types of pipes used in conveying water on the farm. (1 1/2 ml	ks)			
	- Galvanized iron pipes				
	- Aluminium pipes				
	- Rubber hose pipes				
	- Plastic hose pipes / PVC				
22.	Give four factors considered when selecting site for compost manure p	reparation.			
		(2mks)			
	- Well drained place	X = Y			
	- Direction of prevailing wind				
	- Size of the farm				
	- Accessibility				
23	Give four indicators of well-decomposed manure.	(2mks)			
20.	- Absence of bad adour	(
	-	Abagath: Nain-Li			
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- Light in weight	
- Brown colour	
- Moist but not wet	
 Original nature of material not noticeable. 	
24. Name two methods that are used in preparing compost manure.	(1mk)
- Indore or pit method	
 Four- heap system or stack method 	
b. Give four reasons for limited use of organic manures to small scale cro	
- Bulkiness	(2mks)
 Laborious in application and transport 	
 They spread diseases, pest and weeds 	
- Loss of nutrients	
 Burn / scorch crops if used when not fully decomposed 	
25. State four importance of livestock.	(2mks)
- Source of food	
- Source of income	
- Cultural uses	
- Animal power	
 Provision of raw materials for industries 	
•	(½ mk)
- Romney march	
	(1mk)
- Galla	
- Boer	
c. Give the terms used to describe the following livestock of different age	e, sex, etc
i. Mature male pig – boar	
ii. Sterilized birds - <i>Capons</i>	
iii. Mature female goat – <i>nanny/doe</i>	
iv. Young one of a sheep - <i>Lamb</i>	
27. Name three dual purpose breeds of cattle.	(1 ½ mks)
- Sahiwal	
- Red poll	
- Simmental	
b. Name the two species of camel.	(1mk)
- Dromedary camel	
- Bactrian camel	
28. State five uses of farm records.	(5mks)
- Help to compare the performance of different enterprises within a farm) or other farms.
- They show the history of the farm	
- Guide a farmer in planning and budgeting of farm operation	
- Help to detect losses or theft on the farm	
- Help in assessment of income tax to avoid over or under taxation	
- Help to determine value of farm or to determine the assets and liabilitie	
	es' of the farm.
 Make it easy to share profits and losses in partnerships. Help in settling disputes among heirs 	es' of the farm.

- Help to show whether the farm business is making profits or losses
- Help in supporting insurance claims on death theft and fire of farm assets.

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- Provide labour information like terminal benefits e.g. NSSF