HISTORY OF
SOUTH AFRICA
Paper 4
20 July 2022
2 hours



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

HISTORY OF SOUTH AFRICA

(c. 1000 to Independence)

Paper 4

2 hours

INSTRUCTIONS TO CANDIDATES

Attempt only four questions.

All questions carry equal marks.

Marks will be awarded for relevant and well - drawn maps, illustrations and examples.

Any extra question shall not be assessed.

1.	(a)	Why did the British establish themselves at the Cape?	(13 marks)
	(b)	Explain the reforms introduced by the British at the Cap	oe. (12 marks)
2.	(a)	Explain the factors that led to the Afrikaaner exodus fit to the interior of South Africa.	om the Cape (13 marks)
	(b)	What were the consequences of their settlement?	(12 marks)
3.	(a)	Explain the importance of King Moshesh in the hi Basuto.	story of the (13 marks)
	(b)	How was the Basuto nation organized?	(12 marks)
4.	(a)	Describe the contribution of Christian missionar development of South Africa during the 19 th century.	ries to the (13 marks)
	(b)	What obstacles did the missionaries face in South Africa	1? (12 marks)
5.	(a)	Describe the economic changes that took place in S between 1867 and 1900.	South Africa (13 marks)
	(b)	How did the changes affect the African peoples?	(12 marks)
6.	(a)	Explain the causes of the Gentleman's war of 1899 - 190)2? (13 marks)
, .	(b)	How did this war affect the people of South Africa?	(12 marks)
7.	(a)	Explain the causes of the Orlando West Junior Secon students riot of 1976.	dary School (13 marks)
	(b)	What were the effects of this riot?	(12 marks)
8.	(a)	Describe the contribution of Sam Nujoma in Namibia's independence.	struggle for (13 marks)
	(b)	What problems were faced by early nationalists?	(12 marks)

²241/1 **HISTORY OF EAST AFRICA** Paper 1

20 July 2022 **2 hours**



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

HISTORY OF EAST AFRICA

(c. 1000 to Independence)

Paper 1

2 hours

INSTRUCTIONS TO CANDIDATES

Attempt only four questions.

All questions carry equal marks.

Marks will be awarded for relevant and well – drawn maps, illustrations and examples.

Any extra question shall not be assessed.

	(a)	Explain the factors that led to the development of the co	oastal states. (13 marks)
	(b)	What led to the collapse of the coastal states by the 16 th century	? (12 marks)
2.	(a)	Why did the Portuguese show growing interest in the East At	frican coast? (13 marks)
	(b)	Explain the obstacles faced by the Portuguese during their stay	at the coast. (12 marks)
3.	(a)	Why did the River Lake Nilotes migrate from their cradle Africa?	land to East (13 marks)
	(b)	What were the effects of their migration on the people of	East Africa? (12 marks)
4.	(a)	How did Ruhinda establish Karagwe Kingdom?	(10 marks)
	(b)	Describe the organization of Karagwe Kingdom during the	19 th century. (15 marks)
5.	(a)	Explain the factors that led to the abolition of slave trade.	(13 marks)
	(b)	What were the effects of the abolition of slave trade?	(12 marks)
6.	(a)	Why did Sir Harry Johnston sign a treaty with the Kabaka of	of Buganda? (13 marks)
	(b)	What were the terms of this treaty?	(12 marks)
7.	(a)	Explain why the British used indirect rule to administer Uganda	a. (13 marks)
	(b)	How was indirect rule applied by the British before 1914?	(12 marks)
8.	(a)	Why were there conflicts in Buganda between 1885 – 1900?	(13 marks)
	(b)	What were the results of these conflicts?	(13 marks)
9.	(a)	Explain why the Mombasa-Kisumu railway line was built in 18	396? (13 marks)
	(b)	What hardships were faced by the builders?	(12 marks)
10.	(a)	Explain why White settlers got interested in Kenya in the late	19 th century? (13 marks)
	(b)	How did they contribute to the development of Kenya?	(12 marks)

845/1 ENTREPRENEURSHIP EDUCATION



Paper 1 18 July 2022 2 ½ hours

ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

ENTREPRENEURSHIP EDUCATION

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Attempt only four questions.

All questions carry equal marks

Begin each number on a fresh page.

Credit will be given to the use of relevant illustrations and diagrams.

Any extra question(s) shall **not** be assessed.

- 1. You have decided to start a furniture-making business in your company.
 - (a) Write a letter to the Executive Director, National Environmental Management Authority (NEMA) requesting for their permission to launch the business. (06 marks)
 - (b) State the requirements you must fulfil before obtaining a license for the business. (06 marks)
 - (c) Design an invoice that you will use in the business. (06 marks)
 - (d) How will your business benefit the community? (07 marks)
- 2. The following balances were extracted from the books of Tukole Enterprises as at 31/12/2010.

Particulars	Shs
Stock 1/1/2010	1,000,000
Premises	4,000,000
Wages and Salaries	550,000
Motor van	3,000,000
Telephone	200,000
Sales	7,400,000
Purchases	2,500,000
Returns inwards	300,000
Returns outwards	400,000
Debtors	800,000
Creditors	600,000
Bank loan	1,500,000
Cash at bank	1,950,000
Cash at hand	1,800,000
Heating and lighting	300,000
Motor repairs	600,000
Commission received	100,000
Drawings	750,000
Interest paid	250,000
Capital	8,000,000
Stock 31/12/2010	660,000

Required to:

- (a) Extract Tukole Enterprises.
 - (i) Trial balance,

(05 marks)

(ii) Trading, profit and loss account.

(12 marks)

- (b) Calculate and interpret the:
 - (i) stock turnover ratio.

(04 marks)

- (ii) average payment period for debts (take 365 days for a year).

 (04 marks)
- 3. You have acquired a 4-months bank loan of Shs. 100,000,000 to operate a maize processing plant. The loan attracts a 10% per month interest.
 - (a) Prepare a loan-repayment schedule using the reducing balance method. (07 marks)
 - (b) Explain the likely effects of the business on the environment.

(08 marks)

- (c) What factors would you consider when selecting a supplier of raw materials for your business? (06 marks)
- (d) Outline any **four** pre-operating expenses for your business.

(04 marks)

- 4. (a) Basiima Ogenze Enterprises is a VAT-registered business. During the year 2019, it had the following VAT-exclusive transactions.
 - Produced clothes worth Shs 10,000,000
 - Sold the same goods to Nassolo, a wholesaler for Shs 12,000,000
 - Nassolo, the wholesaler, sold the same goods to Kikankane, a reailer for Shs 16,000,000.
 - Kikankane, a retailer sold the same goods to Matama, the final consumer at Shs. 20,000,000.

Required, using 18% VAT rate, to calculate the:

(i) tax payable at each stage.

(12 marks)

- (ii) gross sales value to the final consumer VAT-inclusive. (04 marks)
- (iii) VAT paid to Uganda Revenue Authority.

(03 marks)

(b) Kitimbo is one of the employees of Basiima Ogenze enterprises. He earns gross salary of Shs. 7,200,000 per year. The employer uses a monthly PAYE tax rate below to calculate PAYE deductions.

	Chargeable income	Tax rate
1	Not exceeding Shs. 235,000	nil
2	exceeding Shs. 235,000 but not exceeding Shs. 335,000	10% of the amount by which chargeable income exceeds Shs. 235,000
3	exceeding Shs. 335,000 but not exceeding Shs. 410,000	Shs. 10,000 plus 20% of the amount by which chargeable income exceeds Shs. 335,000
4	exceeding Shs. 410,000	Shs. 25,000 plus 30% of the amount by which chargeable income exceeds Shs. 410,000

Required:

Calculate the annual amount of PAYE deductions for Kitimbo. (06 marks)

- 5. You are operating a brick-making project in your hometown.
 - (a) Draft a signpost to promote your business. (06 marks)
 - (b) Explain the factors you will consider when determining prices for your products. (06 marks)
 - (c) Place an order for machines and equipment for your business.

 (06 marks)
 - (d) Draft a job advert to be placed in the newspaper for the post of cashier in your business. (07 marks)

845/2 ENTREPRENEURSHIP EDUCATION

PAPER 2 July/August 2022 2 ½ hours

ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

ENTREPRENEURSHIP EDUCATION

Paper 2

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

This paper consists of two Sections A and B.

Section A is compulsory and answers to this Section must be precise and concise.

Attempt only three questions in Section B.

All questions in Section B carry equal marks

Begin each number on a fresh page.

Credit will be given to the use of relevant illustrations and diagrams.

Any extra question(s) shall **not** be assessed.

Names:	• • • • • • • • • • • • • • • • • • • •	•	Index No:
School Exam Nu	mber:	• • • • • • • • • • • •	Signature:
553/1 BIOLOGY		r North ar a	Candidates should NOT write their Centre Name
(Theory) Paper 1			•••
1 August 2022 2 ½ hours			Making a difference

ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

BIOLOGY

THEORY

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

This paper consists of Sections A, B and C.

Answer all questions in Sections A and B, plus two questions from Section C.

Write the answers to Section A in the boxes provided, answers to Section B in the spaces provided, and answers to Section C in the answer pages provided at the back of the question paper.

FOI	REXAMINE	RS' USE ONLY	
Section/(Marks	
Α			
В			
C	Q.	, .	
	Q.	5.89.88°L\f	រទាស់ ស្ក
ТОТ	AL		1964 1974

SECTION A (30 MARKS)

Answer all questions in this Section by putting in the answer box provided the letter corresponding to the correct answer.

1.	Whic of	h one of the following is an adaptation of	fruits	for self-dispersal? Possessi	ion
	A. B.	parachute. stony / woody endocarp.	C. D.	sutures. sticky hairs.	
2.	Holoz	zoic nutrition is a type of			
	A. B.	autotrophic nutrition.	C. D.	saprophytic nutrition. heterotrophic nutrition.	
3.	_	reen plant, when the rates of respiration a will be	nd pho	otosynthesis are equal the	
	A. B. C. D.	taking in carbon dioxide. giving out oxygen. taking in carbon dioxide and giving out egiving out water vapour.	oxygeı	n.	
4.	In a fl	lowering plant, sugars are transported			
	A. B. C. D.	upwards in the xylem. upwards in the phloem. upwards or downwards in the phloem. upwards or downwards in the xylem.			
5.		igure below shows the diagram of the app as evolved in photosynthesis.	aratus	that can be used to collect	
		Gas collected 2% sodius solution		drogen carbonate	
	 	Aquatic p	lant	Fig 1	
	Whic	h of the following would produce a large	volum	e of gas in a given time?	
	A. B. C.	Increasing the temperature Increasing the concentration of sodium l Increasing both light intensity and conce	hydrog entratio	gen carbonate on of sodium hydrogen	
	D.	carbonate Increasing light intensity			

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6.		name is given to the whole range ep an organism alive?	ge of che	emical cha	inges which are nee	eded just
	A	Basal metabolism.		C .	Anabolism.	8
	A. B.	Catabolism.		-	Metabolism.	
7.	Iron i	is an important component of a b	alanced	diet beca	use it is needed ma	inly by
	A.	Nerves.		C.	Brain.	
	А. В.	Bones.	ef ,	D.	Blood.	
8.	Whe	n the ventricles contract, blood is	s forced	into:		
	A.	Aorta			,	
	B.	Vena cava.				
	C.	Pulmonary artery and aorta.				
	D.	Pulmonary artery.				
9.	Belo	w is an example of a food chain.				
	∟ Whi	Grass hopper ch of the following would occurred in the ecosystem with this	food cl	Egret -very lar	Hawk ge number of liza	ards were
	A.	All the grass would be destroy	red			
	В.	The grasshopper population w	ould ris	e up		
	C.	The Hawk population would o				\
	D.	Egret population would increa	ise			
10.	Whi	ch one of the following is an adv	antage	of vegetat	ive propagation?	
	A.	Competition between parent a	nd offs	oring is m	inimal	
	В.	<u> </u>				
		Colonisation of new habitats i				
	C.	Maintenance of parental chara	acteristic			
			acteristic			
11.	C. D.	Maintenance of parental chara	acteristic curs			
11.	C. D. The	Maintenance of parental chara Variation among offspring oc following are human body parts	acteristic curs	es in offsp		
11.	C. D.	Maintenance of parental chara Variation among offspring oc	acteristic curs	es in offsp	oring	
11.	C. D. The (i) (ii)	Maintenance of parental chara Variation among offspring oc following are human body parts Lungs	acteristic curs	cs in offsp	oring Kidneys	
11.	C. D. The (i) (ii)	Maintenance of parental chara Variation among offspring oc following are human body parts Lungs Skin	acteristic curs	cs in offsp	oring Kidneys	

3

2.		rocess of cell division by meios	-	C	Reproductive organs.	
	A.	Skin cells.		D.	Lymphocytes.	
	B .	Red bone marrow.	_			+
•	In a fe	ood chain, the amount of energy	y passed from	m on	le trophic level to the nex	
	A.	increases.	. 5			
	B.	decreases.				
	C.	remains constant.	1			
	D.	sometimes increases, sometim		S .	*	
١.	Whic	ch of the following gases causes	acid rain?			
	A	Ozone.		C.	Carbon dioxide.	
	A.	Carbon monoxide.		D.	Sulphur dioxide.	L
	B .	Caroon monomiss.	4 1	, ₍₃ ; ,	en an anti-tetanus iniecti	on
5.	If a p	person with a wound contaminate the contains anti-tetanus antibodi	ted by son is les, this is an	exa	mple of	
	wille			C.	artificial immunity.	
	A.	passive immunity.		D.	drug therapy.	
	В.	active immunity.			•	L
6.	Whi	ch of the following are the repre	oductive org	ans	of a flowering plant?	
	Α.	Petals and sepals.				
	В.	Style and stigma.				
	. C.	Pollen nucleus and egg cell.				-
	D.	Stamens and ovary.			n est	
17.	The	force responsible for water trav	velling up a	tree	is generated mainly by	
•	Α.	evaporation from the leaves.		1.		
	В.	root pressure.				
	C.	active transport.				
	D.	osmosis.				
18.		order to germinate, most seeds r	need			
10.	111 (ahla	temperature	
	_ A.	water, carbon dioxide, sunli	ight and suit	aule	temperature.	1
	B.	water oxygen, nitrates, and	l suitable ten	npera	aiu16.	
	C.	water, oxygen and suitable	temperature	•	• "	
	D.	water, oxygen and light.				
19.	In	the small intestine, the villi				
	Α.	speed up digestion.		.1,		r
	В.	propel food through the int	estine.			
1	Č.	increase the absorptive sur	face.		•	
	D.	secrete digestive enzymes.				

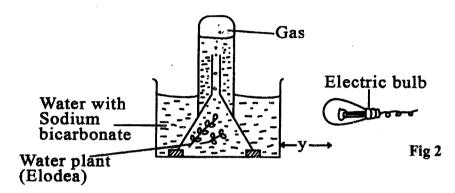
20.	Whe	ere in the lungs does gased	ous exchange to	ake plac	opain bystore e?	gel (1866)
	A. B.	Alveoli.	zentekendin. Milan kodbina Jaga dakababa	C.	Bronchi. Trachea.	
21.	In a	flowering plant, the spong	gy mesophyll is	s to be fo	ound in the	: .
	A. B.	roots. stem.		C. D.	leaf. fruit.	
22.	Why	is humus (organic matter) an important	part of s	oil?	
	A. B. C. D.	Improves water infiltrat Breaks down organic po Converts nitrogen in the It is rich in nutrients, wh	ollutants. e air into nitrate	es used to	by plants. rtility.	
23.	The f	following are some respon	ses of the body	to stim	uli.	
	(i) (ii) (iii) (iv)	Jumping in response to a Balancing on a bicycle. Walking without thinking Blinking when a particle	car tyre burst.	÷		
	Which	n of the responses can be	categorised as a	reflex ac	etion?	
	A. B.	(i) and (iv) (i) and (iii)		C. D.	(ii) and (iv) (ii) and (iii)	
24.	Differ shown colour	rent test tubes containing to be to the transfer of the setup tless	starch solutio p, will the st	n were arch so	treated in different v lution turn from m	vays as ilky to
	A.	Starch so Hydroch	olution + loric acid	C.	Starch solution + fresh Amy	
				$1 \cdot x - t' $	dia and a second	
	B.	Starch so only	lution	D. (288)	Starch solu + boiled ar	
25.	Fungi l	have the potential to produce	uce large numb	ers of o	ffspring by	
		producing many seeds. sexual reproduction.			producing fruits. producing many spor	es.

26.	The e	ffect of insulin is to				
	A. B. C. D.	increase the release of gl increase the amount of g increase the amount of g reduce the amount of glu	lucose stored lucose taken	up by the	ussues.	
27.	In the	e nitrogen cycle, the bacter es are called	ria which can	convert n	itrogen in the a	ir into
	A. B.	Nitrate bacteria. Denitrifying bacteria.	, t e.	C. D.	Nitrifying bac Nitrogen-fixi	cteria. ng bacteria.
28.	Whic	ch of these is not a feature	of natural se	lection?		
	A. B. C. D.	Competition for resource Production of many off Selection by humans. Variation within the po-	spring.			
29.	Whi	ch of the following lists co	ontains only a	arthropods	?	
	A. B. C. D.	Annelids, insects, milli Arachnids, crustaceans Crustaceans, insects, m Insects, millipedes, ner	, millipedes. nolluscs. natodes.			
30.	In a	an experiment a stem of your ces and each placed in a so	oung herbacolution as foll	eous plant ows;	was cut into	four equal strip
	2 nd 3 rd 4 th	into 5% salt solution into 2.5% salt solution into 1% salt solution into 0.5% salt solution				
	All	the pieces were left in the nost likely to be short and	e respective so flaccid?	olutions fo	or 1 hour. Whic	h of the pieces
	A. B.	1 st piece 2 nd piece		C. D.	3 rd piece 4 th piece	

SECTION B (40 MARKS)

Answer all questions in this Section. Answers must be written in the spaces provided

31. An experiment was set up to collect the gas produced when a green plant (elodea) in water with sodium bicarbonate was illuminated by light from a bulb in a dark room.



When the light source was placed at different distances (y increased) from the plant, the following results were obtained.

Distance (y) of light source from plant in cms	Volume of gas produced (cm³/min)
2	1.0
4	0.50
6	0.35
8	0.25
10	0.20
12	0.18
14	0.16
16	0.12

(a)	Describe the relationship between the distance of light plant and the volume of gas produced per minute.	source from the (02 marks)	
	***************************************	••••••	
	***************************************	• • • • • • • • • • • • • • • • • • • •	
	***************************************	••••••	

Using a graph paper, plot a graph to relate of volume of a gas produced with (a) distance (y) of the light source from the plant. (08 marks) (b) State the name of: the process described (01 mark) (i) the gas produced by the process (01 mark) (ii) How can the rate of the process be determined? (01 mark) (c) What would happen to the volume of the gas produced per minute if (d) sodium bicarbonate was completely replaced by distilled water? (01 mark) the temperature of water was increased from 25° C to 40° C? (ii) (01 mark)

	(e)	Write down the equation to show the reaction taking place in	the water plant. (02 marks)
	(f)	Apart from light, state other three conditions and their us process.	se to the above (03 marks)
		(i)	
		(ii)	
		(iii)	••••••
30.	(a)	Explain how each of the following is achieved during mover fish in water.	
		(i) Reduction of water resistance.	(02 marks)
		(ii) Coming on the surface to feed.	(02 marks)
		(iii) Braking in case it has been moving fast.	(02 marks)

	(b)	State four structural adaptations that have enabled birds to live aerial life.	a successful (04 marks)

		€ .	*************
		••••••	

		•••••••	
33.	Figu	re 5 shows the route taken by blood around the mammalian body	√ .
		E heart chamber A D heart chamber B Fig 5	
	(a)	(i) Name the heart chambers A and B.	(01 mark)
		A	(01 mark)
		(ii) Using information shown in Figure 5, identify the type vessel C. Give a reason for your answer.	e of blood
		Type of vessel	(01 mark)
			(01 mark)
		Reason	
			.,

	(b)	(i) State and explain two differences between the contents of flowing in vessels C and E.	of the blood (04 marks)
		•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
		••••••	· · · · · · · · · · · · · · · · · · ·
			••••••
	(c)	Suggest and explain which of the four blood vessels contains highest pressure.	blood at the (02 marks)
		••••••	7 * * * * * * * * * * * * *

		••••••	•••••
		SECTION C (30 MARKS)	
		Answer any two questions from this Section.	
34.	(a)	Differentiate between epigeal and hypogeal germination.	(04 marks)
	(b)	State the role played by the following in seed germination;	
		(i) adequate supply of water(ii) favourable temperature	(02 marks) (02 marks)
	(c)	Describe an experiment that can be carried out in the laborate that germinating seeds can respire.	ory to show (07 marks)
35.	(a)	Distinguish between geotropism and phototropism.	(02 marks)
	(b)	Describe an experiment to show geotropism in a bean seedling.	(10 marks)
	(c)	State three importance of the different types of tropisms in plants.	(03 marks)
36.	(a)	What is meant by the term homeostasis?	(02 marks)
	(b)		ns. (04 marks) (07 marks)
	(c)	Name any two other organs in the human body involved in homeos	,
37.	(a)	Using a linear illustration, show how energy flows through the feeding levels.	ne different (03 marks)
	(b)	(ii) Soil erosion.	(05 marks) (07 marks)
		11	END

Names:	Index No:					
School Exam Number:	····	Signature:				
527/1	Candide	ates should	d NOT write thei ber anywhere on	r Centre	Name of	
AGRICULTURE				<i>19</i>		
PRINCIPLES AND			Ald the March	- 56		
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ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

PRINCIPLES AND PRACTICES OF AGRICULTURE

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

The paper consists of Part A and B

Attempt all questions in Part A and four questions in Part B.

In Part B, you are required to choose at least one question from each Section.

No additional answer sheets should be provided.

FOR EXAMINERS' USE ONLY				
PART A				
Q.				
TOTAL				

PART A (20 MARKS)

For Question 1 write the letter corresponding to the best answer in the boxes provided and for questions 2 to 5 write the answers in the space provided.

ρ		arbids in a cron garden is
1.	(a)	The best method for controlling crop aphids in a crop garden is
		 A. weed control B. spraying using systematic pesticides C. crop rotation D. spraying using contact pesticide
	(b)	Which one of the following is the role of magnum in the process of egg formation in poultry birds? It is the site for
		A. fertilization B. chalaza formation C. membrane formation D. egg shell addition
	(c)	The following are operations carried out in a crush except
		A. feeding B. milking C. vaccination D. castration
	(d)	Which one of the following land tenure systems discourages agricultural development?
		A. state ownership B. individual ownership C. freehold land system D. communal tenure system
2.	(a)	What is meant by risk as applied to farming business? (02 marks)
		••••••
	(b)	Outline four ways of guarding against risks in the farming business. (04 marks)

3.	(a	Mention four benefits of having a good soil structure. (02 marks
4.	(a)	State the signs of mastitis in a diary animal. (03 marks)
	(b)	
5.	Out	line four advantages of using a spray race in vector control on the farm. (04 marks)

	•••••	
		PART B (80 Marks)
	fr	Answer four questions from this part including at least one question om each Section. Write your answers in the answer spaces provided.
		SECTION B
		MECHANISM AND FARM MANAGEMENT
6.	(a)	Outline the advantages of mechanizing agricultural activities. (08 marks)
	(b)	Explain the reasons for the low adoption of mechanization in some parts of Uganda. (12 marks)
7.	(a)	Explain the relevance of fences in improving farming efficiency. (10 marks)
	(b)	Outline the steps followed when establishing a barbed wire fence. (10 marks)

- Explain the contribution of farming organizationS to agricultural (a) 8. development.
 - Outline the challenges faced by farming organizations in Uganda. (12 marks) (b)

SECTION C

CROP PRODUCTION

- Outline the desirable characteristics of a good pasture plant. (08 marks) (a) 9.
 - (12 marks) Describe the procedure of establishing a pasture.
- (b) (08 marks) Explain the effects of soil erosion on crop production. 10. (a)
 - Suggest the measures that can be employed to control soil erosion on (b) agricultural land.
- (08 marks) Outline the benefits of draining agricultural land. 11. (a)
 - Describe the measures that can be employed to drain agricultural land. (b)

SECTION D

ANIMAL PRODUCTION

- Explain the factors that influence feed intake in farm animals. (12 marks) (a) 12.
 - Describe the considerations made by a farmer when mixing feed (b) ration. (06 marks)
- Why is milk highly perishable? (a) 13.
 - Describe the steps taken to produce high-quality clean milk on a farm. (14 marks) (b)
- (06 marks) Why is castration important in livestock management? (a) 14.
 - (14 marks) Explain the surgical methods of castrating bull calves. (b)

456/2
MATHEMATICS
Paper 2
25 July 2022
2 ½ hours



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

MATHEMATICS

Paper 2

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Attempt all questions in Section A and any five in Section B.

Any additional question(s) answered shall not be marked.

All necessary calculations must be done in the answer booklet provided. Therefore, no paper should be given for rough work.

Silent, non – programmable scientific calculators and mathematical tables with a list of formulae may be used.

Graph papers are provided.

SECTION A: 40 MARKS

Attempt all questions

- 1. Given that f(x) = 3(2x 1), find the value of x such that f(x) = 15. (04 marks)
- 2. Find the equation of the line passing through (2, 2) which has a gradient of -3.

 (04 marks)
- 3. Express 56.5 litres in cm³, giving the answer in standard form. (04 marks)
- 4. A dress-maker paid Shs 80,000 for $\frac{3}{5}$ of a roll of cloth. Find how much she would have paid for $\frac{3}{5}$ of the same roll of cloth. (04 marks)
- 5. $\Sigma = \{a, b, c, d, e, f, g\}, A = \{a, d, e, f, g\}, B = \{a, c, e, g\}$ Find: (i) $\cap (A \cup B)$ (01 mark) (ii) $\cap (A' \cap B)$ (03 marks)
- 6. Given that 720 US dollars to Ushs 2,592,000. Find the:
 - (i) rate of exchange;

(02 marks)

(ii) equivalent of Ushs 360,000 in US dollars.

(02 marks)

- 7. A car driver covered a distance of 60 km at 100kh⁻¹. A lorry driver covered the same distance but took half an hour more. Calculate the average speed of the lorry driver.

 (04 marks)
- 8. y is known to be inversely proportional to the square of x. when y = 2, x = 2. Find the value of x when y = 32.
- 9. Solve the inequality $20 < 2 (3x 2) \le 44$ and represent the solution on a number line. (04 marks)
- 10. Make q the subject of the formula $p = r \sqrt{1 q^2}$.

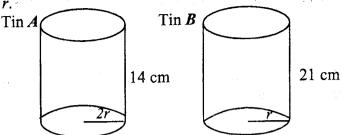
(04 marks)

SECTION B (60 MARKS)

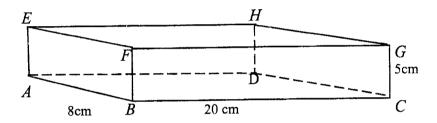
Answer any five questions from this Section

- 11. 120 students were asked to write down which of the three fruits, Bananas (B), Pineapples (P) and Mangoes (M) they liked. 9 students did not like any of the three fruits. 92 liked B, 87 liked P and 79 liked M. 75 liked B and P, 68 liked P and M and 72 liked M and B.
 - (a) Represent the information on a Venn diagram.
 - (b) Determine the number of students who liked:
 - (i) all the three fruits,
 - (ii) only B.
 - (iii) more than one of the fruits.

15. Two cylindrical tins A and B have heights 14 cm and 21 cm. Their base radii are 2r and r.



- (a) Form an expression in r for the volume of each tin. (04 marks)
- (b) Hence find the ratio volume of tin A: volume of tin B. (02 marks)
- (c) Find the volume of r for which the volume of one tin exceeds volume of the other by 2.75 litres. Take = $\pi = \frac{22}{7}$ (05 marks)
- 16. The diagram below shows a cuboid. AB = 8 cm, BC = 20cm and CG = 5 cm.



Calculate the:

- (a) length of BD
- (b) length of BH
- (c) angle between the line BH and the plane ABCD.
- (d) angle between the planes HBC and ABCD.

(12 marks)

- 17. Sarah has a maximum of Shs. 800,000 today to spend on making necklaces. She will make two types of necklaces type A which costs Shs 100,000 each and type B at Shs 80,000 each. Sarah plans to make more necklaces of type B than of type A. She also wants at least 2 necklaces of type A and a total of over 6 necklaces of both types.
 - (a) Assuming she makes x necklaces of type A and y necklaces of type B, write down the inequalities in x and y for the information given above. (04 marks)
 - (b) Show on a graph the region of points which satisfy the inequalities above. (04 marks)
 - (c) Sarah's profit on the necklaces is given by the expression 300x + 200y. Find how many necklaces of each type she should make in order to realize maximum profit and calculate the maximum profit. (04 marks)

273/1 GEOGRAPHY PAPER 1 27 July 2022 2 ½ hours



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

GEOGRAPHY

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

The paper has two Parts: Part I and Part II

Part I and Section A are compulsory.

Attempt only one question from Section B of Part II.

Answers to all questions must be written in the answer booklets provided.

PART I: 30 MARKS OBJECTIVE TYPE QUESTIONS

1.	The existence of rock strata in East Africa's rocks shows that the rocks are				
	A. B.	igneous. sedimentary.	C. D.	metamorphic. plutonic.	
2.	The due	sudden decline in East Africa's foresto	c earr	nings from tourism is mainly	
	A. B. C. D.	the global economic recession.	sites.	では数字数 x x x x x x x x x x x x x x x x x x	
3.		ich one of the following crops is a recticides?	aw n	naterial to industries making	
	A. B.	Cloves Sisal	C. D.	Pyrethrum Wattle	
4.	The	e following are characteristics of acidic	lava	except: It	
	A. B. C. D.	is viscous. has a high content of silica.			
5.	The	e most lucrative invisible export from U	gand	a to Kenya is	
	A. B.	maize eggs	C. D.	cement electricity	
6.	The	e main reason for encouraging fish farm	ning i	n Uganda is to	
	A. B. C. D.	increase household income. generate employment opportunities. increase food production. boost foreign exchange earnings.			
7.	De	ep-widened craters in volcanic areas of	East	Africa are also known as	
	A. B.	crater lakes. explosion craters.	C. D.	calderas. summit craters.	

8.	C:	oral limestone along the East	t African rocks.	
	A. B.	8	C. D.	intrusively- mechanically-
9.	Th ca	ne feature formed when lava in a volled a	olcanic pi	be is exposed by denudation is
	A. B.	Promiss	C. D.	
10.	. Th	e most suitable industry to establis idustry.	sh in a wat	tle tree growing area is a
	A. B.	textile pulp and paper	C. D.	leather tanning furniture-making
11.	Ch ma	emical weathering is dominant in inly because they	the basin	n areas around lake Victoria
	A. B.	have soft rocks. are hot and wet.	C. D.	are dry and hot. are low-lying.
12.	Roa	ad transport is commonly used in E	East Africa	because it is
4	A. B.	fast. cheap.	C. D.	flexible. safe.
13.	Wh	ich of the following is not characte	eristic of fa	ault lakes? They are
	A. B.	large.	C. D.	salty. deep.
14.	Whi	ch one of the following features is	found in	the torrent stage of a river?
	A. B.	Deltas. Meanders.	C. D.	Waterfalls. Levees.
15.	The	main crop grown at Kilombero va	lley irrigat	tion scheme in Tanzania is
	A. B.	Sugar cane. Rice.	C.	Wheat.

called soil	a slope from the hilltop to the valley is also
	C. catena.
A. structure.	D. profile.
B. texture.	
7. A body of water enclosed by spi	ts and sand bars is called a / an
7. A body of water enclosed by spi	
A. cuspate foreland.	C. ox bow lake.
	D. bay.
B. lagoon.	· · · · · · · · · · · · · · · · · · ·
8. The rapidly-increasing population	on in Kabale is mainly caused by
A. polygamy.	
A. polygamy. B. ignorance about birth cont	rol measures.
C. improved health facilities.	
D. high fertility rate.	
D.	Uganda are said to be.
19. The volcanic soils on Kisoro p	lains in south western Uganda are said to be.
soils.	
	C. intrazonal
A. azonal	C. intrazonai D. loam
B. zonal	- ·
	g areas in East Africa is known for wheat
20. Which one of the following	g areas III Last Miles 12
growing?	
-	C. Bugiri
A. Uasin Gishu	D. Kisumu
B. Kericho	D ,
£ £.	sh caught in lake Tanganyika is
21. The most common type of no	sh caught in lake Tanganyika is
	C. Nile perch.
A. Luciolates.	D. Dagaa.
B. Tilapia.	_
0.4 0.11	minerals is not mined in the rift valley areas o
22. Which one of the following	Inmorate to not
East Africa?	
	C. Soda ash
A. Limestone	D. Salt
B. Gold	
م مساعد ا	pressure on climatic maps are known as
23. Lines to show atmospheric p	Meganie on Assessment L
	C. isotopes.
A. isonephs.	
A. isonephs. B. isohyets.	D. isobars.

24	24. The area in East Africa known for using the drilling method in extracting minerals is					
	A B		(C.	Mwadui.	
	D,	Shinyanga.	I	D.	Magadi.	
25	. Tr	ees in savanna areas of East Africa hav	ve ro	ugl	n thick barks mainly to	
	A. B.	The state of the s				
		store water.	se .			
	D.	protect trees from intense heat.				
26.	La	ndslides on the slopes of mount Elgon	are 1	nai	nly caused by	
	_	volcanic activity.	C	٠	earthquakes.	
	B.	heavy rainfall.	D		steep slopes.	
27.	Wh	ich one of the following ports is found	l on 1	Lak	e Tanganyika?	
	A.	Mtwara	C.	,	Kigoma	
	B.	Bukoba	D.		Mwanza	
28.	The	following are processes of physical w	eath	erir	ng except	
	A.	exfoliation.	C.	ł	plock disintegration.	
	B.	oxidation.	D.		rost action.	
29.	Whi	ch one of the following is not a charac	teris	tic	of equatorial climate?	
	A.	It has a small diurnal temperature ran	ge.			
	B.	It has a large diurnal temperature range	ge.			
		It receives monomodal rainfall. Rainfall is moderate.				
30.	Whi	ch one of the following lakes in East A	frica	is	volcanic?	
	A.	Kyoga	C.	M	futanda	
	B.	Bisina	D.		wania	

PART II

MAPWORK, PHOTOGRAPH INTERPRETATION AND FIELDWORK

Answer four questions from this Part including questions 1, 2 and 3 which are compulsory.

SECTION A

COMPULSORY QUESTION: MAP WORK (20 Marks)

Answer all parts of this question.

- 1. Study the 1: 50,000 (UGANDA) NABYESO map extract part of sheet 45/2 Edition 1 U.S.D and answer the questions that follow.
 - (a) (i) State the grid reference of the bore hole at Ayabi. (01 mark)
 - (ii) Identify the feature found at grid reference 843993. (01 mark)
 - (b) (i) Measure and state the distance in kilometers of the dry weather road from the road junction at Arwotcek grid reference 827942 to Abeja grid reference 801023. (02 marks)
 - (ii) Calculate the area covered by Lake Kwania west of eating 80 excluding the permanent swamp. (03 marks)
 - (c) Draw a sketch map of the area shown on the map extract and on it mark and name:
 - (i) Lake Kwania
 - (ii) permanent swamps
 - (iii) two seasonal swamps
 - (iv) vegetation types
 - (v) transport routes

(07 marks)

- (d) (i) Identify the economic activities carried out in the area shown on the map extract. (02 marks)
 - (ii) Describe the relationship between relief and drainage in the area shown on the map extract. (04 marks)

2. PHOTOGRAPH INTERPRETATION: COMPULSORY QUESTION

Study the photograph provided below and answer the questions that follow.



(a) (i) Identify the type of photograph.

(01 mark)

(ii) Give reasons for your answer.

- (02 marks)
- (b) (i) What economic activity is carried out in the middle ground?

 (01 mark)
 - (ii) Describe the factors that favoured the economic activity identified in (b) (i) above.

 (05 marks)
- (c) Explain the problems faced by the workers shown in the photograph.

 (04 marks)
- (d) Giving evidence from the photograph, name any **one** area in east Africa where the photograph could have been taken. (02 marks)

COMPULSORY QUESTION:

FIELDWORK (15 Marks)

- 3. For any fieldwork study you have conducted as a group or individual:
 - (a) State the:
 - (i) topic

(01 mark)

(ii) objectives of the study.

(02 marks)

- (b) Draw a sketch map of the area studied and on it mark and name:
 - (i) Physical features
 - (ii) Land use activities

(06 marks)

(c) Explain the skills you obtained during the study.

(03 marks)

(d) Describe the relationship between relief and human activities in the area of study.

(04 marks)

SECTION B:

EAST AFRICA:

20 Marks

Answer only one question from this Section

- 4. (a) Distinguish between sedimentary rocks and metamorphic rocks.
 - (04 marks)
 - (b) Describe how sedimentary rocks are formed.

(05 marks)

- (c) (i) Identify any two examples of sedimentary rocks found in East Africa. (02 marks)
 - (ii) Explain the economic importance of sedimentary rocks to the development of East Africa. (06 marks)
- (d) Outline the problems faced by people living around rock areas of East Africa.

 (03 marks)

Study the table below showing East Africa's population between 1997 and 5. 2001 and answer the questions that follow.

Year	1997	1998	1999	2000	2001
Population					2001
(000,000)	80	82	84	86	88

Source: World Bank (2003), African Development Indicators, Washington DC

- Draw a line graph to represent the information in the table. (08 marks)
- (b) Describe the trend in the population between 1997 and 2001.

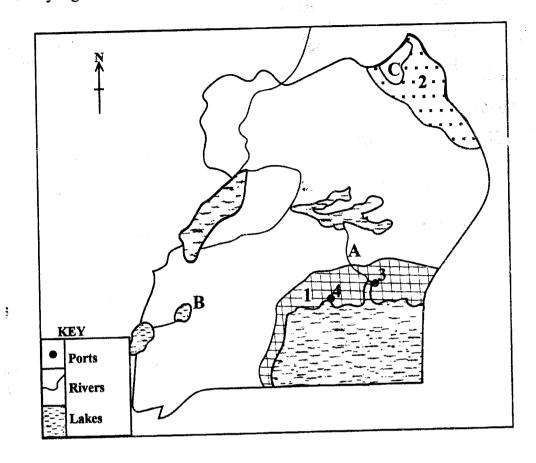
(02 marks)

- Explain the factors leading to the population trend described in (b) above. (06 marks)
- Outline the problems resulting from rapid population growth in East (d) Africa. (04 marks)
- 6. Draw a sketch map of East Africa and on it mark and name:
 - (i) The equator,
 - The East African rift valley
 - (iii) Highlands: Rwenzori and Kilimanjaro
 - (iv) Nairobi city

(07 marks)

- Describe the process that led to the formation of mountain Kilimanjaro. (06 marks)
- (c) Explain the effects of mountains on the climate of the surrounding areas. (04 marks)
- Outline the problems faced by mountainous areas of East Africa. (03 marks)

7. Study figure I below: Map of Uganda and answer the questions that follow.



(a)	(ii) Water bodies A and B. (iii) Ports 3 and 4	(02 marks) (02 marks) (02 marks) (01 mark)
(b)	Describe the characteristics of climate I .	(05 marks)
(c)	Explain the factors influencing East Africa's climate.	(06 marks)
(d)	Outline the problems faced in any one climatic region in (a)	(i) above. (02 marks)

10 END

Name	Index No:				
School Exam Number:	Signature:				
545/2	Candidates should NOT wri	te their Centre Nam			
CHEMISTRY Paper 2	or Centre Number anywh	ere on this bookiet			
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ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

CHEMISTRY

Paper 2

2 hours

INSTRUCTIONS TO THE CANDIDATES

22 July 2022 2 hours

Section A consists of 10 - structured questions. Attempt all questions in this Section.

Answers to Section A must be filled in the spaces provided.

Section B consists of 4 semi – structured questions. Attempt any two questions from this Section. Answers to this Section must be written in the answer pages provided overleaf.

In both Sections, all your working must be clearly shown.

1 mole of any gas occupies 22,400 cm³ at s.t.p.

1 mole of any gas occupies $24,000 \text{ cm}^3$ at room temperature.

[S = 32, N = 14, O = 16, C = 12, H = 1]

FOR EXAMINERS' USE ONLY

1	2	3	4	5	6	7	8	9	10	11	12	13.	TOTAL
												1 :	4.1
		-										2	

O-C-1 2022 Entebbe Joint Examination Bureau: Chemistry Turn Over

SECTION A: (50 MARKS)

l.	(a)	State mixtu	the suitable method used to separate components of targets:	ine following
		(i)	Barium sulphate and Barium chloride.	(01 mark)
			***************************************	in vier
			***************************************	······································
		(ii)	Potassium carbonate and Potassium hydrogen carbonate.	
	·			
	(b)		nall amount of sodium chloride was shaken with a larger in a beaker.	ge volume of
		(i)	State what was observed.	(01 mark)
			•••••••••••••••••••••••••••••••••••••••	
		(ii)	Name the suitable method that can be used to obtain soc crystals from the mixture formed.	(01 mark)
			***************************************	······································
			***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	(c)	A fein (b	w drops of lead(II) nitrate solution were added to the result above and the mixture warmed. State what was observed	ultant mixture . (01 mark)
		******		The April 1984 to
	,			
2.	The	atomic	numbers of elements P , Q and R are 9, 13 and 14 respecti	vely.
,	(a)	Writ	e the electronic configuration of the ions formed by;	
		(i)	P.	(½ mark)
		(ii)	Q.	(½ mark)
			•••••••••••••••••••••••••••••••••••••••	***************************************
	(b)	of e	ns of elements P and Q combine to produce compound S lements P and R combine to form compound T . Write rula of:	s, while atoms the chemica
		10111	iula Oi.	
	2	(i)		(01 mark)
		(ii)		(01 mark)
		/ >		

	(C		aw a diagram showing how atoms P and Q combine to	(02 marka
			and the same of th	

	•	****		

3.	(a)	(i)	Name one substance which reacts with dilute produce copper(II) sulphate.	sulphuric acid t (01 mark)
		(ii)	Write equation for the reaction that takes place.	(1½ marks)
	(b)	Some	on 1.50 g of copper(II) sulphate crystals, $CuSO_4.nR$ ly, 0.96 g of the anhydrous salt were produced. Determine $Su = 64$, $S = 32$, $O = 16$, $H = 1$)	<i>TO</i> 1
		******		••••••••••
	·.			
		•••••		***************************************

•	(a)	Name	e the conditions under which water readily reacts with r	
		*******	•••••••••••••••••••••••••••••••••••••••	(01 mark)
		********		*******************
	(b) ,	(i)	State what was observed in (a) above.	(01 mark)
				••••••

(ii) Write equ	ation for the reaction.
All the second	(1½ mar

	added to tile products of the reaction in (a)
(i) State what	Would be observed a
	(½ mark)

(ii) Write ionic e	equation for the reaction in (c) (i) above. (1½ marks)
***************************************	***************************************
5. (a) When sodium perox formed.	kide was dissolved in water, a colourless solution Q was
**:	
(i) Name the colo	ourless solution, Q.
100 A	(½ mark)
colourless solu	II TOP the
	ion. a to the formation of the (1½ marks)
•	

and added dropwise	until in excess to aluminium sulphate solution.
(i) State what was o	bserved
	(1½ marks)
***************************************	***************************************
(ii) Write the formula	of the complex anion of aluminium formed.
	of the complex anion of aluminium formed.
(Artist Co.)	(½ mark)

(c) A few drops of dilute ni	tric acid were added to the resultant mixture in (b)
above. State what was ob	some 1 were added to the resultant mixture is a
***************************************	served. (½ mark)
Carrier Commence of the Commen	(12 man N)
•	
**************************************	***************************************
	A Company of the Comp

6.	D is	uring t catalyt	he manufacture of sulphuric acid by the contact process, sically oxidised to sulphur trioxide according to the following	ulphur dioxide
	e e e e e e	Piktoria i	$2SO_{2(g)} + O_{2(g)} \rightleftharpoons 2SO_{3(g)} \Delta H^{\theta} = -197KJmol^{-1}$	
	(a)	(i)	Name one source of sulphur dioxide and one source o in the contact process.	f oxygen used
	g ² k		***************************************	(01 mark)
	p. 90)	(ii)	State the industrial conditions used to obtain maxin sulphur dioxide.	num yield of
				(01 mark)
	(b)	Sulp a cor (i)	hur trioxide formed is dissolved in concentrated sulphuric npound <i>T</i> . Write the chemical formula of <i>T</i> .	acid to form (½ mark)
		(ii)	Give a reason why sulphur trioxide is not dissolved produce sulphuric acid.	in water to
	(c)	Write	equation to show how T can be converted to sulphuric acid	
		••••••	•••••••••••••••••••••••••••••••••••••••	
7.	Comp	ound Z	contains 1.55 g of phosphorus and 2.00 g of oxygen.	***************************************
	(a)	Calcul	ate the empirical formula of 7 (P = 21, O = 16)	(02 marks)
•		•		
		•		***************************************
		· · · · · · · · · · · · · · · · · · ·		**************************************
			***************************************	*****

	t jedani. Nac	(ii)	molecular formula of Z . (Relative formula mass of Z is	(01 mark)
	ta dag	5		**************
	(b)	When	compound Z was dissolved in water, a colourless	
		(i)	State what would be observed if a spatula endful carbonate was added to the colourless solution formed.	of potassium (½ mark)
	1.11		**************************************	
		(ii)	Write ionic equation for the reaction that took place.	(1½ marks)
	etan yak			
	1.16,17.4			***************************************
8.	(a)	Defin	ne the term molar enthalpy of combustion.	(01 mark)
	. *	:		
		*******	***************************************	
	(b)	Ethai	nol burns in oxygen according to the following equation	
		C_2H_5	$5OH_{(l)} + 3O_{2(g)} \longrightarrow 2CO_{2(g)} + 3H_2O_{(l)} \Delta H^{\theta} = -1$	360 KJmol ⁻¹
		of w	ulate the mass of ethanol required to raise the temperatuater by 98.0° C. (S.H.C of water = 4.2, density of water =	are of 1000 cm = 1.0 gcm^{-3} and $(3\frac{1}{2} \text{ marks})$
		C = I	12, O = 16, H = 1)	,

	11 3	******		

	***	*****	***************************************	
		******		***************************************
		• • • • • • •		
			1 the state one use of ethanol	mark)
	(c)	Fron	n the equation above, state one use of ethanol. $(\frac{1}{2})$	
	(c)	Fror	n the equation above, state one use of ethanol.	

		the:	
	(i)	anions in the solution;	(01 mark)
	(ii)	cations in the solution	(01 mark)
(b)		Write ionic equation for the reaction that took place at electrode.	the positive (1½ marks)
	(ii)	State what was observed at the negative electrode.	•••••••
		•••••••••••••••••••••••••••••••••••••••	
(c)	State h	now the gaseous product at the positive electrode can be te	(01 mark)

	ss potas	ssium iodide solution was added to a solution containing te. $(Pb = 207, N = 14, O = 16, I = 127)$	
	ss potas	ssium iodide solution was added to a solution containing te. $(Pb = 207, N = 14, O = 16, I = 127)$	
lead(ss potas	ssium iodide solution was added to a solution containing te. $(Pb = 207, N = 14, O = 16, I = 127)$	ng 2.35 g of
lead(ss potas II) nitrat State v	issium iodide solution was added to a solution containing te. $(Pb = 207, N = 14, O = 16, I = 127)$ what was observed.	og 2.35 g of (½ mark)
lead(ss potas II) nitrat State v	ssium iodide solution was added to a solution containing te. $(Pb = 207, N = 14, O = 16, I = 127)$ what was observed.	

	(c)		late the mass of the sol					•	narks)
	& * ¹ :			igge oo gere	715 ya a	darne	Miss. 41		:
		*******					agreer (S		
	X						**********		*******
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	to car		•••••	• • • • • • • • • • • • • • • • • • • •			*********		•••••
		2 ******							
	21.3	arves 14	SECTION				. Partire	().	
			Attempt two que	estions fr	om this	Section			
	4 * * *		The second of the second		1 () ()			<i>(</i> 0.1	
11.	(a)	What	is meant by the term rat	e of reac	tion?	4 - 4	A	(01 m	ark)
	(b)	Expla	in how the following fac	tors affec	t the rate	of react	ion:	* · · ·	
								(03 m	anka)
		, ,	temperature					(03 m	,
		(ii)	concentration					(05 111	urns)
	(c)	culnh	experiment to investiguric acid, a flask containveighed after every 10 m	ning exce inutes. The	ess magn he results	esium po	owder an corded in	the table	below.
	* .		(mins)	0	10	20	30	40 15.0	50 11.9
		Mass	of flask + contents (g)	95.9	64.5	39.0	24.4	15.0	11.9
		(i)	Plot a graph of mass of	flask and	d content	s against	time.	(04 m	arks)
		(ii)	Determine the rates of Comment on your resu		n after 1	5.0 and	27.5 min	ute respe (04 m	ectively. arks)
12.	(a)	Defin	ne the terms:						
		(i)	acid					(01 n	ıark)
			normal salt					(01 n	,
		(iii)		1.5	e statte S		•	(01 n	ıark)
	(b)	Writ	e the chemical formula o	f both à r	ormal sa	lt and an	acid salt	of calciu	m.
			The state of the s		· · · · · · · · · · · · · · · · · · ·		,	(01 n	nark)
			cribe how lead(II) sulpha	ite can be	e prepare	d in the	laborator	y beginn	ing with
	(c)	lead	(II) carbonate. (Your answer	wer shoul	ld include	e equatio	ns for the	reaction	ns) marks)
	*****		and the second s	4.2				. (072	

		r	A sample of sodium hydrogen carl hrough calcium hydroxide solutio eaction that took place.	n for a long time	and the product(s) pass. Write equation for
			A Company of the Comp		(All month)
1	13.	a) (i			(4½ marks)
	•	a) (i	Explain how a pure and dev		
	•	• • • •	laboratory starting from amm	sample of ammoni	a can be promon !
		···	Explain how a pure and dry laboratory starting from ammo	mum sulphate.	or prepared in the
		(ii	Write equation for the reaction	1 4.	(05 marks)
			Write equation for the reaction	leading to the form	ation of america
	(h) «.	the second of th		or animonia.
	(b)) Şta	te what would be observed at		(1½ marks)
		unt	il in excess to	lilute ammonia soli	lition is all to
			te what would be observed when o		ation is added dropwise
		(i)	copper(II) sulphate		
		د درو			Z***
		(ii)	iron(III) chloride		(1½ marks)
	(-)	<u></u>			
	(c)	Writ	e ionic equation for the result		(01 mark)
***			e ionic equation for the reaction that	took place in (b) (i	i) ahove
	(4)	***		() (-	-) 400VE,
	(d)	Write	equations to show how amman	_	$(1\frac{1}{2} marks)$
			equations to show how ammonia ca	an be converted to r	litric acid
14.	(a)		,		/ 4 * .
	(a)	(i)	Write equation(s) for the reaction		(4½ marks)
			Write equation(s) for the reaction(s) crystals, FeSO ₄ .7H ₂ O are heated str	s) that take place w	then iron(II) 1
			crystals, FeSO ₄ .7H ₂ O are heated str	ongly until no furth	ner change
					ror change,
		(ii)	State what would be observed to		(03 marks)
	<i>a</i> >	_	State what would be observed in (a)	(i) above.	/11/
	(b)	Describ	e how the solid product		(1½ marks)
		_	e how the solid product in (a) above	can be converted t	O iron
ļ	(c)	Describ	e the reactions of iron with:	, said t	O HOH,
			or non with:		$(2\frac{1}{2} marks)$
		i) o:	xygen		
		ii) cl	nlorine	٠	/3 1/ -
	(i	iii) di	lute hydrochloric acid.	· · · · · · · · · · · · · · · · · · ·	$(2\frac{1}{2} marks)$
				The second of th	$(2\frac{1}{2} marks)$
(0	d) S ₁	tate one	use of iron.	in the second of the second	(2½ marks)
					21.7
					(½ mark)

Names:			Inde	n 174 r No:	K _{we} sof
	lumber:				
545/1 CHEMISTRY Paper 1			Candidates should or Centre Numb	NOT write the	ir Centre Name
22 July 2022				•	
1 ½ hours		<u>'</u>		•	Making a difference
	ENTEBBE JO	INT EXAM	INATION BU	REAU	
			of Education		
		CHEMIST	TRY 1997 1		
		Paper 1		× .	
	1	hour 30 m	inutes		
INSTRUCTION	IS TO CANDIDA	ATES			
This paper consis	sts of 50 objective	- questions	•		
Attempt all quest					
You are required boxes provided o	to write the corre	ect answer A ide of each c	, B , C or D in l question.	olue or blaci	k ink in the
Do not use pencil					
Molar gas volume	$e \ at \ s.t.p = 22.4 \ ds$	m³ or 22,400	Ocm^3 .		
Molar gas volume	e at room tempera	nture = 24.0	dm^3 or 24000cn	i^3 .	
C=12, H=1, Cu	a = 63.5, S = 32, C	O = 16, Mg	= 24, K = 39, N	T = 14	
	FOR EX	AMINER'S	S USE ONLY		
				2 (2)	

1.	The s	substance formed when chalk dust is	s shaken wi	ith a large amount of wat	er is
	A. B.	solution suspension	C. D.	solvent solute	
2.	Whic coppe	h of the following particles are responser?	nsible for c	onducting electricity in mo	olten
	A. B.	Ions Protons	C. D .	Neutrons Electrons	
3.	Oxyg	en is collected by gas syringe method	l because it;		
	A. B.	is less dense than air is denser than air	C. D.	is almost as heavy as air does not react with air	
4.	Wher to sta	n a mixture of Zinc powder and a solution and for some time, there was no observable.	ution contai vable chang	ning compound R was allowe. R is	owed
	A. B.	MgSO ₄ CuSO ₄	C. D.	AgNO ₃ FeSO ₄	
5.	Whic	th one of the following is a product of	electrolysis	of brine?	
	A. B.	Sodium nitrate Sodium hydroxide	C. D.	Sodium carbonate Sodium Sulphate	
6.	The g	gas which decolourises both potassiur	n manganate	e(VII) and bromine water i	s
	A. B.	ethene methane	C. D.	hydrogen chloride carbon monoxide	,
7.	The f	full symbol of the atom of an element on formed by T	T is $^{19}_{9}T$. W	That is the number of proto	ns in
	A. B.	7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	C. D.	9 10	
8.	A so	lution containing Zinc ions will form;	and the state of		
	A. B. C. D.	a reddish-brown precipitate with m white precipitate with dilute sulphu white precipitate soluble in excess p green precipitate insoluble in ammo	ric acid potassium h	ydroxide solution	
9.		ch one of the following acids can re			l salt
	A. B.	CH ₃ COOH H ₂ SO ₃	C. D.	H ₂ SO ₄ H ₂ CO ₃	
		2			

10.	Whi	ch one of the following substance	es is used t	to bleac	h sugar?	
	A. B.	Chlorine Calcium chloride	,	C. D.	Sulphur dioxide Sodium sulphate	
11.		percentage by mass of oxygen in $= 23$, $C = 12$, $O = 16$, $H = 1$	in sodium	carbon	ate crystals, Na ₂ CO ₃ .10	<i>0H₂O</i> is
	A. B.	16.8% 35.5%	, 4 0 .	C. D.	67.8% 72.7%	
12.	Sulp	hur dioxide behaves as an oxidiz	ing agent v	when it	reacts with;	
	A. B.	concentrated nitric acid hydrogen sulphide		C. D.	iron(III) sulphate potassium dichromate	
13.	Mag	nesium reacts with chlorine, whe	n heated, a	ccordir	ng to the equation.	
	M	$g_{(s)} + Cl_{2(g)}$ \longrightarrow	MgCl _{2 (s)}			
		volume of chorine in litres at nesium is (1 mole of a gas occupi				0.6g of
	A.	$\frac{0.6}{24}\times22.4$		C.	$\frac{0.6}{22.4}\times24$	
	B.	$\frac{0.6}{24} \times \frac{22.4}{2}$		D.	$\frac{0.6}{22.4} \times \frac{24}{2}$	
14.	temp	on 2.0g of substance W (Rmm = erature of 1000g of water by 18 is (The S.H.C of water is 4.2jg)	3.6° C. The	burnt, molar	the heat produced raise heat of combustion of	sed the of W in
	A.	$\frac{1000\times4.2\times18.6\times2.0}{60} \ KJmol^{-1}$		C.	$\frac{18.6\times2.0\times1000}{4.2\times60} \ KJmol^{-1}$	L
	B.	$\frac{18.6\times60\times1000}{2.0\times4.2}KJmol^{-1}$		D.	$\frac{4.2 \times 18.6 \times 60}{2.0} \ KJmol^{-1}$	
15.	Whic soluti	h one of the following does not on?	produce a	white p	recipitate with lead(II)	nitrate
	A. B. C. D.	Dilute sulphuric acid Dilute hydrochloric acid Excess sodium hydroxide solut Excess ammonia solution	ion			

16.	• Which one of the following reactions shows the oxidizing property of nitric acid?					
	A. B. C. D.	$\begin{array}{cccc} PbO_{(s)} + 2HNO_{3(aq)} & \longrightarrow & \\ CaCO_{3(s)} + 2HNO_{3(aq)} & \longrightarrow & \\ NaOH_{(aq)} + HNO_{3(aq)} & \longrightarrow & \\ Cu_{(s)} + 4HNO_{3(aq)} & \longrightarrow & \\ \end{array}$	$Ca(NO_3)_2$ (aq) $NaNO_3(aq) + 1$	$+ CO_{2(g)} + H_2O_{(l)}$ $H_2O_{(l)}$	<i>n</i>	
17.		atomic numbers of elements Q, R ch one of the following pairs of elerges?				
	A. B.	Q and R T and X	C. D.	X and R Q and T		
18.		ch one of the following substances ates hydrogen gas with magnesium		n water to form a	solution that	
	A. B.	NH ₄ Cl Na ₂ O ₂	C. D.	CH₃COOK CaO		
19.	Whic	ch one of the following is the formu	la of an unsatu	rated hydrocarbon	?	
	A. B.	C_2H_6 C_3H_8	C. D.	C ₄ H ₁₀ C ₅ H ₈		
20.	Whic	th one of the following salts cannot	be prepared by	y direct synthesis r	nethod?	
	A. B.	FeCl ₂ MgCl ₂	C. D.	FeCl ₃ AlCl ₃		
21.	carbo	on of 0.14M hydrochloric acid reachast solution. What is the concentre of the per litre? (Reaction ratio of HCl.)	ration of the po	•	•	
	A.	15×0.14 25×2	C.	15×0.1×2 1000×25		
	В.	15×0.1×2 25	D.	15×0.1 25	<u></u>	
22.	Whic	h one of the following equations sh	ows formation	of hardness in wat	ter?	
	A. B. C. D.	$\begin{array}{c} \text{Ca}(\text{HCO}_3)_{2\ (aq)} \longrightarrow \text{CaCO}_{3(s)} \\ \text{CO}_{2(g)} + \text{H}_2\text{O}_{(l)} + \text{CaCO}_{3(s)} \longrightarrow \text{CaCO}_{3(s)} \\ \text{Co}_{2(g)} + \text{Ca}(\text{OH})_{2(aq)} \longrightarrow \text{CaO}_{(s)} + \text{Co}_{2(s)} \\ \text{CaCO}_{3(s)} \longrightarrow \text{CaO}_{(s)} + \text{Co}_{2(s)} \end{array}$	\rightarrow Ca(HCO ₃) ₂ caCO _{3(s)} + H ₂ O ₆	2(ag)		

;	23. S	The number of solutions is	moles of chloric	le ions in 500	cm ³ of	2.0M aluminium ch	loride
2	E	3. 2		C D	. 0).3 .4	
_	-T. V	vilich one of the f	ollowing mixture	s will react who	en heat	ed?	<u></u>
25	A B 5. G	MagnesiumIron (III)oxi	oxide and iron de and copper	C. D.	Zii lea	nc and aluminium oxidd(II)oxide and magnes I) chloride, and the g	
	so	lution turned to y	ellow. What is ga	s Y?	mon(1	l) chloride, and the g	reen
	A. B.	displacing ag acidic gas	gent	C. D.	oxid	acing agent lising agent	
26		nich one of the for number of mole 2SO ₄ ?	ollowing solutions s of sodium ions	s contains the s in 50cm ³ of a		umber of hydrogen ior sodium sulphate solut	on ion,
	A. B.	200cm ³ of 0.1 150cm ³ of 0.2	$M H_2 SO_4$	C. D.	50cn	cm^3 of 0.5M HCl cm^3 of 1M H ₃ PO ₄	
27.	The acid	mass of oxalic action is $(H=1, C=12, \dots)$	cid <i>(H₂C₂O₄)</i> requ <i>O=16)</i>	ired to prepare	250cm	n ³ of 1.5M solution of	the
	A.	1.5×250 1000×90		C.	90×2 1000×		
	B.	1000×250 90×1.5		D.	1.5×25		
28.	Expo	osure of chlorine	vater to sunlight l	eads to formati	on of		
	A.	HOCI			011 01	1. 11 mg	
	B.	H_2		C. D.	O_2 CO_2		
29.	The pammo	oreparation of su onia from nitroger	lphuric acid by a and hydrogen in			nilar to preparation o	f
	A. B. C.	low pressure and high pressure and low pressure and	I low temperature d high temperature high temperature I low temperature	re	-		

30.	0.4g The r	of metal hydroxide, MOI relative formula mass of I	H reacted comple MOH is	etely w	ith 20cm ³ of a 0.	5M nitric acid
	A.	$\frac{0.5 \times 20}{0.4 \times 1000}$		C.	$\frac{0.4 \times 1000}{0.5 \times 20}$	
	B.	1000×0.5 0.4×20		D. :	0.4×20×0.5 1000	
31.	The imme	atomic number of elementation T in the same	ent T is 7. The ame periodic table	atomic e is	number of the	element that is
**	A. B.	12 13	Ą	C. D.	14 15	
32.	Lead follo	(II) nitrate was heated wing is the colour the res	and the residue idue?	allow	ed to cool. Whi	ich one of the
	A.	Black		C.	White	
	B.	Yellow		D.	Brown	L
33.	An a	cid H ₃ A reacts with sodi	um hydroxide sol	ution a	ccording to the e	equation.
	H_3A_6	$(aq) + 3NaOH_{(aq)}$	\rightarrow Na ₃ A _(aq)	+ 3H ₂ C) (t)	
		n^3 of 0.1M sodium hydre of y is	roxide required y	cm ³	of 0.06M solution	on of acid. Th
	A.	20×0.1 3X0.06		C.	0.06×3 20×0.1	
	B.	20×0.1×3 0.06		D.	20×0.06 3×0.1	
34.		reaction between lumps of the toproceed faster by;	of calcium carbo	nate an	d dilute hydrochl	oric acid can b
	A. B. C. D.	using much volume of using little mass of cal grinding lumps of calc adding iron powder to	lcium carbonate cium carbonate be			
35.	The 7 respoin	electronic configuration spectively. Which elements?	of elements P, Q nts react together	, R and to for	1 <i>S</i> are 2, 4; 2, 6; m a compound w	2, 8, 2 and 2, ith high meltir
:	A. B.	P and S Q and R	C. D.	Q ar P ar		

30.	W	nich one of the following equation	shows a	a reduction process?	
	A. B. C. D.	$2H^{+}_{(aq)} + 2e \longrightarrow H_{2(g)}$ $2Cl^{-}_{(aq)} \longrightarrow Cl_{2(g)} + 2e$ $Cu_{(s)} - 2e \longrightarrow Cu^{2+}_{(aq)}$ $HCl_{(aq)} \longrightarrow H^{+}_{(aq)} + 2e$	2e		
37.	Wh nitr	nich one of the following ions will rate solution?	form a	white precipitate with acidified bar	ium
	A. B.	$CO_3^{2-}(aq)$ $Cl^-(aq)$	C. Ď.	$HCO_3^-(aq)$ $SO_4^{2-}(aq)$	
38.	The add	formula of the complex ion formed to aluminium oxide is	ned whe	en excess sodium hydroxide solution	ı is
	A. B.	$Al(OH)_{\overline{4}}^{-}$ $Al(OH)_{\overline{4}}^{-}$	C. D.	$Al(OH)_3^{2-}$ $Al(OH)_4^{2-}$	
39.	Whi cont	ch one of the following is the caining 0.05 moles of sodium chlor	concentr	ration in grams per litro of a releas	ion
	A.	0.05×50 1000×58.5	C.	$\frac{0.05 \times 50 \times 58.5}{1000}$	<u> </u>
	B.	$\frac{0.05 \times 1000 \times 58.5}{50}$	D.	1000 × 50 58.5 × 0.05	
l0.	The	formation of plastic from ethane is	an exa	mple of	
	A. B.	vulcanization neutralisation	C. D.	condensation polymerisation addition polymerisation	
	Each side	of the questions 41 to 45 consist and the reason on the right hand sign	s of an	assertion (statement) on the left har	ıd
	A.	If both the assertion and the recorrect explanation of the asserti	ason ar	re true statements but the reason is	a
	В.	If both the assertion and the reas correct explanation of the assertion	son are on.	true statements but the reason is not	a
	C. D.	If both the assertion is true but the If both the assertion is not correct	e reason t but the	n is not correct statement. e reason is a correct statement.	
		INSTRUCT	TIONS	SUMMARISED	
		Assertion Reaso	n -		
	A.	True True and is a	correct	t explanation	
	B.	True but is n	ot a cor	rect explanation	
	C.	True Incorrect	and the second of the second o		
	D.	Incorrect Correct		ANT CONTRACTOR OF THE STATE OF	

41.		nond and graphitopes of carbon	te are	because	they both burn in air to produce carbon dioxide	
42.	deco	um carbonate imposes on heatin its oxide and ca ide		because	Sodium belongs to group I in the periodic table.	
43.	colle	rogen chloride is ected by downwa lacement of air		because	hydrogen chloride is denser than air.	
44.	over	en dry ammonia i heated lead(II) o ish-brown solid	oxide, the	because	ammonia is a reducing agent.	
45.	molt	ktracting sodium en sodium hydro ium chloride is a	ochloride,	because	Calcium chloride increases the melting point of sodium chloride	
		h of the question	ns 46 to 50 one	or more	of the answers given may be correct	
A. B.		, 2 and 3 only ar and 3 only corre		C. D.	If 2 and 4 only correct If 4 only is correct	
46.	Which	of the following	elements form	more that	n one oxide?	
, a service service	1.	Nitrogen		3.	carbon	
	2.	Sulphur		4.	Calcium	
47.	Which		owing is/are for	rmed whe	en dilute nitric acid is reacted with	a
	1.	Water		3.	Nitrate of the metal	
<u>-</u>	2.	Oxygen		4.	Nitrogen dioxide gas	
6 10.	1. 2. A. A. S. 3.	tion is the proces electrons are rer hydrogen is rem oxygen is added electrons are ad	noved from a su loved from a su I to a substance	bstance		
49.	Which 1. 2.	of the following Ethanol Graphite	g substance will	be dehyd 3. 4.	rated by concentrated sulphuric acid' Sugar Lime	?
50.		per litre? (Na = Dissolving 2g o Diluting 25cm ³ Dissolving 8g s	23, $O = 16$, $H = 16$ of 2M sodium lodium hydroxic	= 1) xide in 25 hydroxide le in one l	solution to 250cm ³ of solution	n

aski or il

273/2 GEOGRAPHY Paper 2 27 July 2022 2 ½ hours



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

GEOGRAPHY

Paper 2

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Attempt four questions.

Choose two questions from Part I and two from Part II

In Part II, only one question should be chosen from any one region.

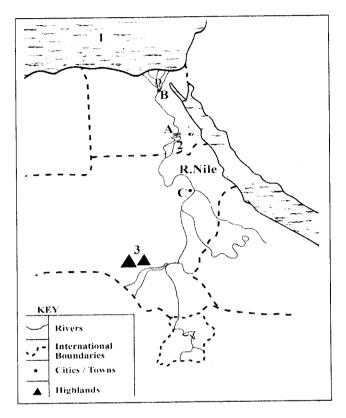
Any extra questions shall not be assessed.

PART I

REST OF AFRICA

Answer two questions from this Part.

1. Study Figure I: Map of the Nile basin provided and answer the questions that follow.



- (a) Name the:
 - (i) Water bodies 1 and 2.
 - (ii) Dam A.
 - (iii) Towns \boldsymbol{B} and \boldsymbol{C} .
 - (iv) Highland 3.
 - (v) Delta **D**.

(07 marks)

- (b) Explain the importance of the Nile basin to the development of Africa. (06 marks)
- (c) Describe the factors that have limited navigation most rivers in Africa.

 (08 marks)
- (d) Suggest possible measures to improve navigation along rivers in Africa.

(04 marks)

2. Study Table I below showing forest cover in selected African countries (2000-2010) and answer the questions that follow.

ntw	Forested area as a % of total land area			
ntry	2000	2010		
on	85.4	85.4		
. Rep. of Congo	69.4	68.0		
of South Africa	5.7	4.7		
ria	48.1	44.9		
egal	46.2	44.0		
	26.8	21.7		
na				

Adapted: World Bank (2012/13), African Development Indicators, Washington DC p57

- (a) Calculate the percentage change in forest cover for each country between 2000 and 2010. (06 marks)
- (b) Draw a line graph to show the percentage land area under forest cover in 2010. (08 marks)
- (c) (i) Identify the country with the
 - highest
 - lowest percentage change in forest cover between 2000 and 2010. (02 marks)
 - (ii) Explain the factors leading to the highest percentage change in the country identified in (c) (i) above. (06 marks)
- (d) Outline the measures being taken to conserve forests in Africa.

(03 marks)

- 3. (a) Draw a sketch map of the Gezira irrigation scheme and on it mark and name:
 - (i) Towns: Sennar and Khartoum
 - (ii) Rivers: Blue and White Nile
 - (iii) Crop transport routes
 - (iv) Jabel Aulia Dam
 - (v) Irrigation areas: Gezira and Managil extension

(09 marks)

(b) Outline the aims of the Gezira irrigation scheme.

(04 marks)

(c) Describe the factors that favoured the establishment of the Gezira irrigation scheme. (06 marks)

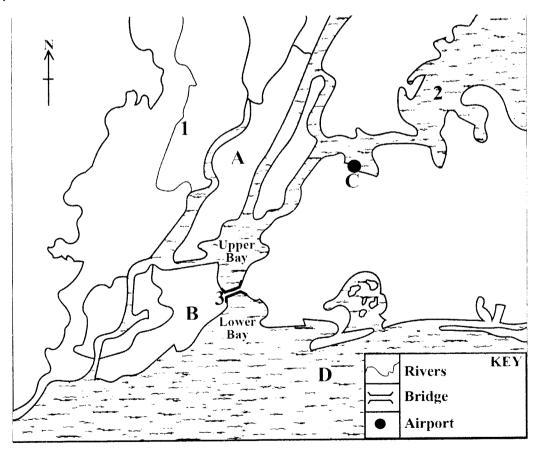
- (d) Explain the problems that resulted from the establishment of Gezira irrigation scheme. (06 marks)
- 4. (a) Distinguish between **drifting** and **purse seining**. (08 marks)
 - (b) Identify any **two**:
 - (i) marine fish species caught in Africa. (02 marks)
 - (ii) modern fish preservation methods used in Africa. (02 marks)
 - (c) Describe the physical factors favouring the growth of the fishing industry in Africa. (08 marks)
 - (d) Outline the measures being taken to promote fishing activities in Africa. (05 marks)

PART II: STUDIES IN DEVELOPMENT

Answer two questions from this Part

REGION I: NORTH AMERICA

5. Study Figure II below showing the site of New York City and answer the questions that follow.



- (a) Name the:
 - (i) Islands A and B
 - (ii) Rivers 1 and 2
 - (iii) Airport C
 - (iv) Bridge 3
 - (v) Water body D

(07 marks)

(b) Describe the factors favouring the growth of New York City.

(08 marks)

(c) Explain the problems resulting from urbanization in the USA.

(06 marks)

(d) Outline the steps being taken to solve the problems in (c) above.

(04 marks)

6. Study table II below showing climate of the Canadian prairies and answer the questions that follow.

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp ⁰ C	-19	-15	10	02	15	19	22	17	15	11	-2	-12
Precipitation	22	22	30	35	65	78	78	63	58	38	27	22

(a) Draw a suitable graph to represent the information in the table.

(08 marks)

- (b) Explain the influence of climate on the Canadian prairies. (06 marks)
- (c) (i) Identify the main crop grown on the Canadian prairies. (01 mark)
 - (ii) Describe the factors favouring crop growing on the Canadian prairies. (05 marks)
- (d) Explain the benefits of arable farming to the people of Canada.

(04 marks)

- 7. (a) Draw a sketch map of new England and on it mark and name:
 - (i) States: Massachusetts and Rhode Island
 - (ii) Rivers: Connecticut and Merrimack
 - (iii) Towns: Boston and New Bedford
 - (iv) Lake Chaplain
 - (v) Long Island

(08 marks)

- (b) Identify any two industries found in:
 - (i) Boston
 - (ii) New Bedford

(04 marks)

Turn Over

(c) Explain the benefits of industries in New England.

(08 marks)

(d) Outline the factors limiting the growth of industries in New England.

(04 marks)

REGION II:

RHINE LANDS

8. Study Table III showing energy production in Germany (2005) and answer the questions that follow.

Table III: Germany: Energy Production (2005)

Type of Energy	. % of Total Energy
Coal	49.8
Gas	11.3
Oil	1.7
Hydro power	3.2
Nuclear power	26.6
Others	7.4

Adapted: World Bank (2008), World Development Indicators, Washington DC p166-68

- (a) Draw a pie chart to represent the information given in the table above.

 (09 marks)
- (b) Identify
 - (i) any one coal mining area
 - (ii) least amount of energy produced in Germany.

(02 marks)

- (c) Describe the factors that have favoured the development of the coal mining sector in Germany. (06 marks)
- (d) Outline the:
 - (i) environmental problems resulting from mining in Germany.

(04 marks)

- (ii) steps being taken to solve the problems in (d) (i) above. (04 marks)
- **9.** (a) Draw a sketch map of Switzerland and on it mark and name:
 - (i) Relief divisions: Alps and central plateau
 - (ii) Rivers: Rhine and Rhone
 - (iii) Tourist sites: Lausanne and arosa
 - (iv) Lake Constance

(08 marks)

- (b) (i) Identify any two
 - winter and
 - summer

tourist activities carried out in Switzerland.

(04 marks)

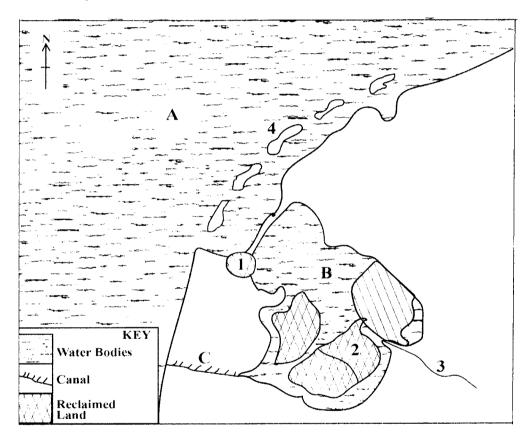
- (ii) Describe the factors favouring the growth of the tourism industry in Switzerland. (06 marks)
- (a) Outline the
 - (i) problems facing the Swiss tourist sector.

(04 marks)

(ii) measures taken to promote tourism in Switzerland.

(03 marks)

10. Study Figure 3: Map showing reclaimed land by the Zuider Zee project and answer the questions that follow.



- (a) Name the:
 - (i) Polders 1 and 2
 - (ii) Sea A
 - (iii) River 3
 - (iv) Lake *B*
 - (v) Islands 4
 - (vi) Canal C

(07 marks)

(b) Describe the conditions that favoured the establishment of the Zuider (08 marks) Zee project. (c) How is reclaimed land used in the Netherlands? (d) Outline the problems faced during the utilization of reclaimed. (05 marks) (i) (ii) measures being taken to solve the problems in (d) (i) above. (05 marks) REGION III: CHINA 11. (a) Draw a sketch map of China and on it mark and name. Areas receiving (i) heavy rainfall low rainfall (ii) North Sea and Yellow Sea (iii) Rivers Huang He and Yangtse Kiang. (iv) Tropic of cancer (08 marks) (b) Explain the factors influencing rainfall distribution in China. (06 marks) Describe the land use activities carried out in areas that receive (03 marks) heavy rainfall. (i)

(d) Outline the problems faced by the people living in areas receiving

(ii) low rainfall.

heavy rainfall in China.

(03 marks)

(05 marks)

12. Study table IV below showing China's population living in selected cities in 2011 and answer the questions that follow.

Table IV: China's Population living in Selected Cities

Urban centres	Population
Shanghai	18,665,000
Shenyang	5,325,000
Kumming	3,200,000
Nanjing	4,230,000
Beijing	14,170,000

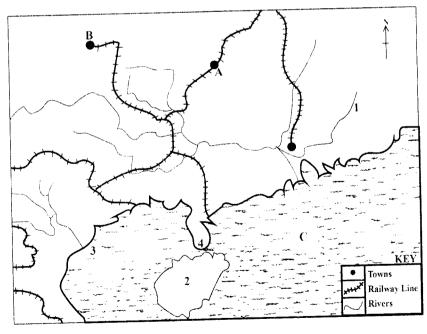
Adapted: World City Information;

https://www.city-infos.com/list of urban areas by population

- (a) Draw a bar graph to represent the information in the table. (07 marks)
- (b) Identify the city with the
 - (i) largest population
 - (ii) lowest population

(02 marks)

- (c) Giving examples, describe the conditions influencing population distribution in China. (08 marks)
- (d) Explain problems faced by people living in cities with large population China. (08 marks)
- 13. Study Figure 4: Map of the Sikiang river basin and answer the questions that follow.



- (a) Name the:
 - (i) Cities A and B
 - (ii) River I
 - (iii) Waterbody C
 - (iv) Island 2
 - (v) Gulf *3*
 - (vi) Peninsula 4

(07 marks)

- (b) Explain the contribution of the Sikiang river basin to the development of china. (08 marks)
- (c) Outline the problems faced by the people around the Sikiang river basin. (06 marks)
- (d) Suggest possible solutions to the problems identified in (c) above.

 (04 marks)

10 END

456/1 MATHEMATICS Paper 1 25 July 2022 2 ½ hours



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

MATHEMATICS

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Attempt all questions in Section A and any five in Section B.

Any extra question(s) answered shall **not** be marked.

All necessary calculations must be done in the answer booklet provided. Therefore, no paper should be given for rough work.

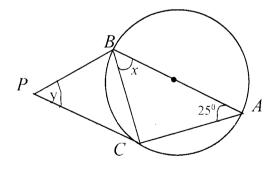
Silent, non – programmable scientific calculators and mathematical tables with a list of formulae may be used.

Graph papers are provided.

SECTION A: 40 MARKS

Attempt all questions

- 1. Solve the equation: $5x^{2/3} = 80$ (04 marks)
- 2. The mean of the numbers 3, 5, 8, 1, 5, x and 7 is 5. Determine the:
 - (i) value of x (02 marks)
 - (ii) median of the numbers. (02 marks)
- 3. Given that $P = \begin{pmatrix} 6 & -2 \\ 4 & -1 \end{pmatrix}$ find $P^2 P$. (04 marks)
- 4. A number is selected at random from the set { 1, 2, 3, 4, 5, 6, 7, 8, 9, 10}. Find the probability that the number is a
 - (i) triangular number. (02 marks)
 - (ii) factor of 72. (02 marks)
- 5. The size of the exterior angle of a regular polygon is 90° less than the interior angle. Find the
 - (i) size of the interior angle. (02 marks)
 - (ii) number of sides of the polygon. (02 marks)
- 6. Given that $\cos\theta = \frac{3}{5}$, find $2\sin\theta \cos\theta$. (04 marks)
- 7. A rectangular plot of land (x + 2) metres by (x 3) metres has an area of 104m^2 . Find x. (04 marks)
- 8. Given that $a * b = a^2 3b$, evaluate 3 * (2 * 1). (04 marks)
- 9. In the diagram \overline{AB} is a diameter of the circle. \overline{MB} and \overline{MC} are tangents and angle BAC = 25°. Find the values of x and y. (04 marks)



10. Solve the equation: $\frac{x+1}{3} - \frac{x-2}{4} = \frac{x}{6}$ (04 marks)

SECTION B

Answer any five questions from this Section

11. The table below shows marks obtained by 40 pupils in a mathematics exam.

16	17	21	14	36	41	31	49
37	11	35	34	42	45	28	46
23	36	35	44	43	32	29	47
26	28	40	33	29	32	41	24
18	38	39	27	38	20	37	33

- (a) Draw a frequency distribution table for the marks, starting with the class of 10-14. (07 marks)
- (b) State the:
 - (i) modal class (01 mark)
 - (ii) class width (01 mark)
 - (iii) median class (01 mark)
- (c) Calculate the mean mark.

(02 marks)

- 12. A triangle PQR has vertices P(4, 2) Q(1, 5) and R(1, -2). Its image under a transformation matrix M has vertices P'(8, 4) Q'(2, 10) and R'(2, -4).
 - (a) Find the matrix and describe the transformation fully. (05 marks)
 - (b) Triangle P'Q'R' is then transformed by the matrix $N = \begin{bmatrix} 0 & l \\ l & 0 \end{bmatrix}$ to give triangle P''Q''R''. Find the coordinates of P''Q''R''.
 - (c) Determine a single matrix that would map triangle P"Q"R" back into triangle PQR. (03 marks)
- 13. (a) Copy and complete the table below for y = (3x + 1)(2x 5).

X	-1	0	1	2	3	4
3x + 1	-2				10	
2x - 5	-7				_	
v	14		-12		10	(04 marks)

- (b) Use your completed table to draw a graph of y = (3x + 1)(2x 5) with a scale of 2 cm for 1 unit on the x-axis and 2cm for 5 units on the y-axis.

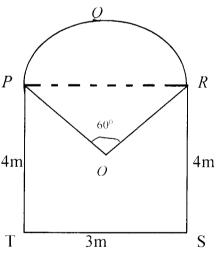
 (03 marks)
- (c) Draw on the same axes the line y = 5. (01 mark)
- (d) Use the two graphs above to solve the equation $6x^2 13x 10 = 0$.

 (04 marks)

14. A rectangular field 115 m long has an area of 8625 m^2 . It is fenced with posts 5m apart, with a post at each corner. Four lines of wire are nailed to the posts. Find:

Ļ

- (a) the number of posts needed. (04 marks)
- (b) the length in metres of wire used for the four lines. (03 marks)
- (c) the cost of fencing the field if each post costs Shs 5,000; the wire costs Shs 850 per metre and labour cost is Shs 100,000. (05 marks)
- **15.** (a) Evaluate: $\begin{bmatrix} 3 & 5 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} 2 & 6 \\ 1 & -3 \end{bmatrix} \quad \begin{bmatrix} 4 & 8 \\ 3 & 1 \end{bmatrix}$ (02 marks)
 - (b) Given that $A = \begin{bmatrix} 1 & 3 \\ 5 & 3 \end{bmatrix}$ $B = \begin{bmatrix} 3 & 1 \\ 5 & -1 \end{bmatrix}$ and $C = \begin{bmatrix} p & 0 \\ 0 & q \end{bmatrix}$ and that AB = BC, determine the value of p and q. (06 marks)
 - (c) Solve for x and y: $\begin{pmatrix} 3 & -2 \\ 2 & 3 \end{pmatrix}$ $\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 4 \\ -6 \end{pmatrix}$ (04 marks)
- 16. A doorway of a church is made up of a circular arc PQR which subtends an angle of 60° at the centre O; two upright bars PT and RS each of length 4m, and a horizontal bar ST of length 3m. Using $\pi = 3.142$, find the area of the doorway in m^2 .



- 17. Two airports A and B are 280 km apart, B being north of A. An aircraft starts from A, flies for 160km to C on a bearing of 060°. By calcualtion, find the:
 - (a) distance of C East of AB. (03 marks)
 - (b) distance of C from B. (04 marks)
 - (c) bearing in which the aircraft must fly to reach B. (05 marks)

223/1
CHRISTIAN
RELIGIOUS
EDUCATION
(Christian Living
Today)
Paper 1
18 July 2022

2 ½ hours



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

CHRISTIAN RELIGIOUS EDUCATION

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Attempt five questions choosing one from each of the Sections A, B, C, D and E in all.

All questions carry equal marks

Any extra question shall not be assessed.

SECTION A

LIVING IN A CHANGING SOCIETY

- 1. (a) How has the Ugandan society changed today? (12 marks)
 - (b) As a Christian, how can you react to such changes? (08 marks)
- 2. (a) Give reasons to explain why many Ugandans are choosing to work abroad. (10 marks)
 - (b) What Christian advice can you give to workers in poor countries? (10 marks)
- 3. (a) 'In the early days of Christianity, the church disapproved of some leisure activities.' Mention some of them. (08 marks)
 - (b) Why did the early church reformers disapprove of some leisure activities of their time? (12 marks)

SECTION B

ORDER AND FREEDOM

- 4. (a) How was justice promoted and maintained in the Affican traditional society? (10 marks)
 - (b) What Biblical teachings can help one to promoe justice in the society? (10 marks)
- 5. (a) How did Reverend Ezekiel Apindi of Kenya preve his servanthood during his ministry? (08 marks)
- 6.

 (b) Using the Bible as an example, show how modern Christians can serve their communities.

 (12 marks)
- 7. In what ways did the Israelites show their loyalty and disloyalty to God in the Old Testament? (20 marks)

SECTION C

LIFE

- 8. (a) Explain the particular moments in African tradition where people expressed joy. (10 marks)
 - (b) Identify the events in the Old Testament that brought happiness to the people. (10 marks)
- 9. (a) Explain the views held in your community about unending life.

 (10 marks)
 - (b) In what ways do Christians prepare themselves for life after death?

 (10 marks)
- 10. (a) Explain the successes Uganda has attained since independence.
 (12 marks)
 - (b) What benefits have Ugandans acquired from such successes?

 (08 marks)

SECTION D

MARRIAGE AND COURTSHIP

- 11. (a) Explain the problems common in modern families today? (10 marks)
 - (b) How is the church helping families deal with the problems?

 (10 marks)
- 12. (a) What forms of inequalities exist between male and female sexes in your society? (08 marks)
 - (b) Show how the New Testament promotes equality of all persons.

 (12 marks)
- 13. (a) What are the causes of marriage instabilities in the present situation?

 (10 marks)
 - (b) Explain the Christian advice to couples intending to divorce.

 (10 marks)

SECTION E

MAN'S RESPONSE TO GOD THROUGH FAITH AND LOVE

- 14. (a) How did people in African traditional society search for God?

 (10 marks)
 - (b) In which ways did people in the Old Testament prove their belief in God? (10 marks)
- 15. (a) Describe the ways in which the Jews evaded God during the times of Jesus. (12 marks)
 - (b) Why did the Jews reject Jesus as the Messiah? (08 marks)
- 16. (a) Show the ways in which God was involved in the life of Israelites in the Old Testament. (10 marks)
 - (b) How did Jesus' followers get involved in the affairs of society after his resurrection? (10 marks)



612/4
IPS
IMAGINATIVE
COMPOSITION
Paper 4
23 July 2022
3 hours

ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

INTEGRATED PRODUCTIVE SKILLS

IPS ART AND CRAFT

ORIGINAL IMAGINATIVE COMPOSITION IN COLOUR

Paper 4

3 hours

INSTRUCTIONS TO CANDIDATES:

Attempt **ONE** question.

The Art teacher should supply the candidates with cards measuring 5cm wide by 12cm long with which the candidates will demarcate the area at the top right – hand corner of the front surface of the paper. In this area, the candidate's name, school number and personal number, in that order must be written clearly. This area **must not** be painted.

Candidates must be informed that **ruling** by any means is forbidden, except when marking off space for the name.

You are required to make an original composition based on **one** of the subjects given overleaf. Bear in mind that quality of composition, imagination, feeling and originality rather than literal interpretation are the main objectives of this paper.

- (a) You must not, on any account, reproduce other people's work.
- (b) Candidates' name and question number attempted must be written at the back of the paper.
- (c) Your composition should fill or approximately fill your sheet of paper.

Candidates are advised against writing their Centre name and Centre number on answer sheets.

O - IPS - 4 2022 Entebbe Joint Examination Bureau: Imaginative Composition Turn Over

SUBJECTS

- 1. Scuffle at a village borehole
- 2. The best cassava harvest
- 3. At a railway station. Some passengers are seen hastily buying food from local vendors while others bid farewell to their friends and relatives.
- 4. Prayer moments
- 5. Stuck in the floods.
- **6.** It is a busy day at a local market.
- 7. A security officer seen running after a group of hawkers in the city.
- **8.** Court in session.

2 END

612/5 IPS CRAFT A Paper 5 5 August 2022 5 1/4 hours



ENTEBBE JOINT EXAMINATION BUREAU

Uganda Certificate of Education

INTEGRATED PRODUCTIVE SKILLS

ART AND CRAFT

CRAFT A

Paper 5

5 hours 15 minutes

INSTRUCTIONS TO CANDIDATES:

Attempt only one alternative.

Indicate the alternative attempted on your answer sheet.

Indicate your Index number and School given Number. Candidates are advised against writing their Centre name and Centre number on answer sheets.

1. In an area measuring 16 cm by 20 cm, design a menu card for 'Pocket Friendly Hotel' located in Maputo town. The items served at the hotel include:

Rice and beans	Shs. 2,500
Katogo and black tea	Shs. 5,000
Chicken luwombo	Shs. 15,000
Mineral water	Shs. 3,000
Cocktail juice	Shs. 5,000
Dip-fried fish	Shs. 10,000
Matooke and beef	Shs. 4,500
	*

Use only three colours of your choice.

- 2. In a space 30 cm x 25 cm in only three colours, design a well-repeated pattern for wrapping birthday presents of your three- year old sibling. "Happy Birthday (name)" should form part of your design.
- 3. In an area 15 cm by 18 cm, design a badge for FUTURE STARS INFANT SCHOOL with the motto; "Toil to Achieve."

Use white and black plus **one** other colour of your choice.

4. Design a poster for an "Art Exhibition" in a space measuring 28 cm x 33 cm. the exhinbition is organised by Picaso School of Arts; majoring in Sculpture, Ceramics and Painting. It will take place on 5th March 2030 at the Nommo Gallery between 10.00 am to 5.00 pm.

Use not more than **three** colours.

1.	(a)	Distinguish between complementary and neutral colours.	(02 marks)
	(b)	List two neutral and two complementary colours.	(02 marks)
	(c)	Give three uses of colour in Art and Design.	(03 marks)
2.	Brief	ly explain the following principles of Art and Design	
	(a) (b) (c)	Rhythm Balance Perspective	(02 marks) (02 marks) (02 marks)
3.	(a)	Define the term studio technology.	(01 mark)
	(b)	State four uses of a studio to a visual artist.	(04 marks)
4.	(a)	Define the following terms in relation to clay work.	
		(i) Scoring(ii) Wedging(iii) Leather-hard(iv) Vitrification	(01 mark) (01 mark) (01 mark) (01 mark)
	(b)	List down four possible areas of clay deposits.	(02 marks)
5.	(a)	Distinguish between the following;	
		(i) Tesserae and interstices.(ii) Photomontage and montage.	(02 marks) (02 marks)
	(b)	Explain the process of making a floor stone mosaic.	(07 marks)
6.	(a)	Define the following terms as used in Art and Design. (i) Exhibition (ii) Craftsmanship (iii) Foreshortening	(01 mark) (01 mark) (01 mark)
	(b)	Explain any four factors hindering the staging of exhibition	ns in Uganda. (04 marks)
7.	Expla	ain the wet method of preparing clay.	(08 marks)
8.	(a)	Distinguish between planes and voids in sculpture.	(02 marks)
	(b)	Explain the following techniques in relation to sculpture. (i) Carving (ii) Casting	(02 marks) (02 marks)
9.	(a) (b) (c)	Define the term glaze . Explain three basic techniques of glazing pottery. Give four reasons why ceramic ware is glazed.	(01 mark) (03 marks) (04 marks)
10.		etry is a craft that economically benefits the community. Fits your community has gained from this craft.	Explain six (06 marks

2 END

EITHER

A male adolescent model dressed in sportswear and wearing sports boots and stockings pulled upwards to the knee level, sits on a football in a relaxed mood (as if listening to instructions from his coach) The model sits with his legs slightly apart. The right and left arms are folded at the elbows and rest on the right and left thighs respectively, allowing the fingers to point outwards.

Candidates draw or paint the whole figure.

OR

A female adolescent model with a veiled head, wearing a school uniform, sits on an office chair behind a table facing the candidates directly. The right arm of the model clasps at the front part of the table. Her left arm is raised up as if giving an answer to the teacher.

2

Candidates draw the head and torso including the upper part of the table.

EITHER: STILL LIFE

ALTERNATIVE A

On a low table covered with a light cloth, place a big tray. In the middle of the tray, place a flask with its lid on. On the right side of the flask, place a medium – sized loaf of bread with a few slices falling off and lying atop each other. To the left of the flask, still on the tray but slightly in front, place a plastic NICE cup with its handle facing your right. Between the cup and the slices of bread, place a big tin of Blue Band Margarine (with its cover intact). To the right of the tray but not on the tray, a medium-sized kettle is placed with its spout facing left.

Candidates draw or paint the entire setting including the table.

ALTERNATIVE B

On the floor near the corner of the room, place a mortar in its upright position. A pestle is placed in a mortar with its remaining half facing the right of the setter. On the left side of the mortar but slightly in front, place a 20-litre jerry can in a ³/₄ view facing towards the right. To the right of the setter slightly in front of the mortar, place a coiled-basket approx. 30 cm in diameter half-filled with shelled ground nuts. In front of the setting but between part of the jerry can and basket, place a medium-sized wooden sieve leaning to the right of the basket.

OR: NATURE

ALTERNATIVE C

Candidates make a study or studies of a fresh tilapia fish with scales attached thereto.

ALTERNATIVE D

Candidates make a study or studies of a grasshopper.

ALTERNATIVE E

Candidates draw or paint a landscape within the school showing a toilet facility with some trees in the back and foreground.

208/1 LITERATURE IN ENGLISH

Paper 1 29 July 2022 2 ½ hours



ENTEBBE JOINT EXAMINATIONBUREAU

Uganda Certificate of Education

LITERATURE IN ENGLISH

Paper 1

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES:

Attempt five questions in all on five books, choosing two questions on two books from Section A and three books from Section B.

In Section A, you must answer one question from Sub – Section I (passages) and one question from Sub – Section II (essays).

You must cover one play and one novel.

In Section B, you must answer three questions, one of which must be from the poetry questions 23 to 26.

SECTION A

Sub – Section I (Passages 1 — 4)

Choose one of the passages 1-4; read it carefully and answer the questions that follow.

Either .

1: FRANCIS IMBUGA: The Return of Mgofu

MTANGE &:

[Together] Yes, Mgofu, we slept well.

MNAVI

NGODA: That's good. Nora, my daughter,

returned from her studies last night, just after you retired to bed. She has

been away for three years.

NORA:

I greet you, people of our motherland.

MTANGE &:

We greet you too, our daughter,

MNAVI NGODA:

Nora, . . . we named her after the woman who gave birth to me right here at this shrine. [visibly amused] That was soon after my father's death. He was buried under that fig tree over there, where the sick sit. My mother is buried there too. And when my time comes, which is not too far away, I to shall be laid to

rest there. Nora, here is my witness. Not so, Ulivaho?

NORA:

It's so, father.

NGODA:

I thank you.

MTANGE:

[cutting in] Allow me to stand by your father's graveside for a

few moments.

NGODA:

That's granted. My late father was a man of Mndika. Where is

the wisdom of denying your request? [MTANGE and MNAVI

observe silence at the graveside]

MNAVI:

We thank you for that.

NGODA:

Quite often we make a mistake. A mistake of thinking that we

learn from the wisdom of hindsight. No! No, we don't.

MNAVI:

And do we not?

NGODA:

No, we don't. My people, what we actually learn from is the ignorance of our understanding. Probably the appreciation of the future too. We think wrongly about the future. The turning point can only be reached by our children and their children.

MTANGE:

A profound thought, indeed.

NGODA:

[contemplating] I've been thinking deeply about what we discussed last night. If your leader is thinking of bringing women closer to the seat of rule, you should support him. That is surely the future. Nderema took that path several years ago.

Now see where they are.

MTANGE:

Mwami Mhando already has a list of deserving women whom he wishes to join the Inner Circle of Elders known as Sujas, for servants.

MNAVI:

I think he intends to revral their names on Remembrance Day.

NGODA:

[looking excited] That's music to my ears. I shall pray for it. You see, tradition is only good when it helps a nation to improve the human condition of its people. Many will resists

change out of ignorance and selfishness.

Questions:

(a) What happens shortly before this scene? (04 marks)

(b) Describe the character of Mtange and Ngoda in the passage. (08 marks)

(c) Identify and illustrate the themes in the conversation above. (04 marks)

(d) Describe what follows this passage. (04 marks)

Or

2. WILLIAM SHAKESPEARE: The

The Merchant of Venice:

Portia:

A pound of that same merchant's flesh is thine, The court awards it, and the law doth give it.

Shylock:

Most rightful judge!

Portia:

And you must cut this flesh off from his breast;

The law allows it, and the court awards it.

Shylock:

Most learned judge! A sentence: come, prepare.

Portia:

Tarry a little, there's something else.

Thisbond doth give thee here no jot of blood The words expressly are 'a pound of flesh,' Take then thy bond, take thou thy pound of flesh,

But in the cutting it, if thou dost shed

One drop of Christian blood, thy lands and goods

Are by the laws of Venice confiscate

Unto the state of Venice.

Gratiano:

ist

Oh, upright judge!

Mark, Jew — Oh learned judge!

Shylock:

Is that the law?

Portia:

Thyself shall see the act.

For as thou urges justice, be assured

Thou shalt have justice more than thou desir'st.

Shylock:

I take this offer then. Pay the bond thrice

And let the Christian go.

Questions:

(a) What conflict does the passage show the readers? (05 marks)

(b) Describe the character of Portia as shown in the passage.

(04 marks)

(c) Identify and briefly explain any three themes in the passage.

(06 marks)

(d) What happens immediately after this passage?

(05 marks)

Or.

3. JOHN STEINBECK: The Pearl

'Yes?' the doctor asked.

'It is a little Indian with a baby. He says a scorpion stung it.'

The doctor put his cup down gently before he let his anger rise.

'Have I nothing better to do than cure insect bites for 'little Indians'? I am a doctor, not a veterinary.'

'Yes, Patron,' said the servant.

'Has he any money?' the doctor demanded. 'No, they never have any money. I, I alone in the world am supposed to work for nothing - and I am tired of it. See if he has any money!'

At the gate the servant opened the door a trifle and looked out at the waiting people. And this time he spoke in the old language.

'Have you money to pay for the treatment?'

Now Kino reached into a secret place somewhere under his blanket. He brought out a paper folded many times. Crease by crease he unfolded it, until at last there came to view eight small misshapen seed pearls, as ugly and gray as little ulcers, flattened and almost valueless. The servant took the paper and closed the gate again, but this time he was not gone long. He opened the gate just wide enough to pass the paper back.

'The doctor has gone out,' he said. 'He was called to a serious case.' And he shut the gate quickly out of shame.

And now a wave of shame went over the whole procession. They melted away. The beggars went back to the church steps, the stragglers moved off, and the neighbors departed so that the public shaming of Kino would not be in their eyes.

For a long time Kino stood in front of the gate with Juana beside him. Slowly he put his suppliant hat on his head. Then, without warning, he struck the gate a crushing blow with his fist. He looked down in wonder at his split knuckles and at the blood that flowed down between his fingers.

Questions:

(a)	What leads to this scene in the novel?	(05 marks)
(b)	Describe the character of Kino in the passage.	(04 marks)
(c)	What are your feelings in this passage?	(06 marks)
(d)	What happens shortly afterwards?	(05 marks)

Or

4. LAWRENCE DARMANI: Grief Child

No one in Susa, not even the oldest man in the village, could remember a time like this. Here was a family, almost wiped out. People refused to believe that this could happen in their village. To some it was like a dream, they would wake to find it gone. But the reality hung over the village like dark clouds. It was a tragedy, a sorrow, a menacing omen. It could not be true. Such things don't happen in real life. May be they happened in distant lands; but not so close to

them. Yet an almost empty house reminded them that Nimo and all but one of his family members were no more. So ominous was the situation that people thought of Adu as the last victim to be waiting to be slaughtered by whatever malevolent hand that had caused all this. Then Adu would follow his father, mother and sister into the world of the dead.

To Adu it felt like a dream, a nightmare that scares you until day breaks and vanishes to the back of your mind. He waited for the day to break soon.

Mahama was a walking shadow. He was afraid now for his own survival. Mahama and Adu were living with Appiah and his family. In no time, Mahama decided that he would leave Susa before his turn came.

When he told Appiah, the older man said, 'Mahama, those who run away from trouble often meet it. You are planning to leave this village because of what happened to all of us. You should consider that trouble is everywhere. Don't let this trouble drive you away from this place. Stay with me: you will be able to make some money here.'

Mahama listened to him but he had already made up his mind to go away. He was not alone. The events had made it too scaring for some to remain in Susa. Only a month later, two families left the village with flimsy reasons which did nothing to satisfy the inquirers.

Yaro did not know what to say to his friend Adu. Only a few months ago when the first tragedy occurred, he had told Adu that God was able in the worst of situations to bring out something better. But surely the death of Adu's father could not be the better thing! Was his statement still true? He had no answer. He could only let the boy come to his house and unburden his soul for as long as he wanted, and cry with him and hold the boy in his arms. It was a tragedy to which he had no ready answers. In the silence of his room he prayed that God would himself talk to the boy.

Questions:

(a)	What events come before this incident?	(06 marks)
(b)	Describe the feelings that this passage arouses in you.	(05 marks)
(c)	Explain any two themes shown in the extract.	(04 marks)
(d)	What happens shortly after the passage?	(05 marks)

Sub Section II

Attempt only one question from this Sub Section. If your answer in sub section (i) was on a play, now select a novel; but if your answer in sub section (i) was a novel, now you must select a play.

FRANCIS IMBUGA: The Return of Mgofu

Either

5. How is the theme of leadership and power brought out in the play *The Return of Mgofu?* (20 marks)

Or

6. Explain the ways in which the play *The Return of Mgofu* is relevant in your community today. (20 marks)

WILLIAM SHAKESPEARE:

The Merchant of Venice

Either

7. Explain any three themes in The Merchant of Venice. (20 marks)

Or

8. Of Shylock and Antonio, who do you sympathise with and why?

(20 marks)

LAWRENCE DARMANI: Grief Child

Either

9. What challenges does Adu face while growing up? How does he finally overcome them? (20 marks)

Or

10. Describe the character of Goma in the novel, Grief Child. (20 marks)

JOHN STEINBECK: The Pearl

Either

11. In what ways does the discovery of the pearl make Kino and his family insecure in the novel *The Pearl?* (20 marks)

Or

12. How is the theme of poverty shown in the novel *The Pearl?* (20 marks)

Turn Over

SECTION B

In this Section, you must answer three questions covering three books. One of the questions must be chosen from a Poetry book.

SILVESTER ONZIVUA:

The Heart Soothers

Either

What challenges does Mini face in her relationship with Jimmy? Show how 13. (20 marks) she overcomes these challenges.

Or

Describe the major lessons in The Heart Soothers. 14.

(20 marks)

OKIA OMTATAH OKOITI:

Voice of the People

Either

Do you find the play Voice of the People relevant to Uganda today? Give 15. (20 marks) reasons.

Or

What is the importance of Nasirumbi in the play Voice of the People? 16. (20 marks)

VICTOR BYABAMAZIMA:

Shadows of Time

Either

Explain the ways in which Shadows of Time is a story of suffering. 17.

(20 marks)

Or

Describe the character of Flora in the novel Shadows of Time. (20 marks) 18.

CHINUA ACHEBE:

Things Fall Apart

Either

What makes Obierika a likeable character in Things Fall Apart? 19.

(20 marks)

Or

Describe the different traditional beliefs of the people of Umuofia in the 20. (20 marks) novel Things Fall Apart.

DANIEL MENGARA: Mema

Either

21. In what ways is the novel *Mema* relevant to your community today?

(20 marks)

Or

22. What makes Akoure Ekang an interesting character in the novel Mema?
(20 marks)

DAVID RUBADIRI: Growing up with Poetry

Either 23. Read the poem below and answer the questions after it

I, too, sing America

I, too, sing America

I am the darker brother.
They send me to eat in the kitchen
When company comes,
But I laugh,
And eat well,
And grow strong.

Tomorrow,
I'll sit at the table
When company comes,
Nobody'll dare
Say to me
'Eat in the kitchen',
Then.

Besides, they'll see how beautiful I am And be ashamed –

I, too, sing America.

Questions:

(a)	State the subject matter of this poem.	(06 marks)
(b)	Mention any five character qualities of the speaker in the poem.	(05 marks)
(c)	What do you find appealing in this poem?	(06 marks)
(d)	How do you feel about the person in the poem and why?	(03 marks)

- Select any poem you have read from Growing up with Poetry by David Rubadiri on the theme of Identity other than the one in question 23 above and use it to answer the following questions: Or 24. (06 marks)
 - State the name of the poet and the title of the poem.

What does the poem say about Identity? (a)

(07 marks)

What is interesting in the poem? (b)

- (05 marks)
- Which lessons do you learn from the poem? (c) (d)

An Anthology of East African Poetry

Read the poem below and answer the questions after it A.D. AMATESHE: Either 25.

Song of the Worker

We squat We move Left centre right Breaking stones KwaKwaKwa! Our hands sore Our heads ache Our knees numb Our backs break Breaking stones KwaKwaKwa!

We squat We move Back centre forward Tilling the land Kwa! Kwa! Kwa!

Our song is sorrow Our tears we eat In rags we move Tramping the land Kwa! Kwa! Kwa! To them: It's dance

They roar in laughter While we sweat and bleed

To them:

It's pleasure
They weep with laughter
While we stumble and tumble
Burdened and hungry
Kwa! Kwa! Kwa! Kwa! Kwa!

(E. Songoyi)

Questions:

Ques	•••	(06 marks)
(a)	What is this poem about?	(00 marks)
(b)	Who is the speaker in the poem?	(02 marks)
(c)	Explain what makes this poem attractive to you.	(07 marks)
(d)	How does the situation of the speaker make you feel and why?	(05 marks)
Or 2	have read from An Anthology of	East African nan the one in
(a)	State the name of the poet and the title of the poem.	(04 marks)
(b)	What does the poem say about Work?	(06 marks)
(c)	What makes the poem interesting to you?	(06 marks)
(d)	Write some piece of advice to a person who dislikes work.	(04 marks)

11

END