

**ENGLISH  
LANGUAGE**

**Paper 1**  
**July / Aug. 2023**  
**2 hours**



**UGANDA TEACHERS' EDUCATION CONSULT (UTECH)**

**Uganda Certificate of Education**

**ENGLISH LANGUAGE**

**Paper 1**

**2 hours**



**INSTRUCTIONS TO CANDIDATES:**

*This paper consists of two sections; A and B*

*Answer two questions in all.*

*Answer question one and one other question in section B.*

**SECTION A :** *You are advised to spend about 10 minutes preparing, 30 minutes writing and about 5 minutes checking and correcting your work.*

**SECTION B :** *You are advised to select only one question from this section and spend about 10 minutes preparing, 1 hour writing and 5 minutes checking and correcting your work.*

*Any additional question(s) answered will not be marked.*

*Compositions should be original and relevant to the given topics.*

## **SECTION A:(20 MARKS)**

*This question is compulsory*

1. You have been chosen to be the Secretary during your class meeting in which you discuss how to improve sanitation in and around your class. You may include some or all of the following in the agenda;

- Prayer.
- Cleaning equipment.
- Provision of water.
- Write the minutes of that meeting.

## **SECTION B: (20 Marks)**

*Choose ONE of the following topics and write a composition of 500 – 600 words.*

2. Write a story beginning; ‘The first time we met...’.
3. Discuss the challenges that accrue from social media among the youth in your community.
4. Your parents don’t like pop music; try to convince them that it has some value.
5. What in your opinion are the causes and effects of homosexuality in your society today?
6. Tell a story to illustrate the saying; ‘Do not count your chicks before they hatch’.
7. Why do you think it is important to teach local languages in schools?

**END**

Name: .....Centre/Index No:...../.....

Signature:.....School: .....

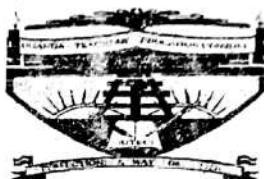
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**ENGLISH  
LANGUAGE**

Paper 2

July / Aug. 2023

2 hours



**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)**

**Uganda Certificate of Education**

**ENGLISH LANGUAGE**

**Paper 2**

2 hours

**INSTRUCTIONS TO CANDIDATES:**

*Attempt ALL questions.*

*All answers must be written in the spaces provided.*

**FOR EXAMINERS' USE ONLY**

QN. 1	QN.2	QN.3	TOTAL

**1. Read the following passage and answer the question that follows.**

The working woman today is many years away from the working woman of 30 years ago. The Uganda woman today has overcome many obstacles and injustices and is still struggling to achieve equal status with the man in so many aspects; employment included. An empowered woman is a free woman and one of the avenues of empowerment is through employment so she can get economic freedom. Affirmative action came with a free avenue for minority groups and women were given this platform to compete with the men favourably thus getting rid of imbalances. With affirmative action came a deeper understanding and questioning of issues by women and this opened more doors for them. Affirmative action shed light more on women's empowerment and one of the issues highlighted was education of women. There were more women going to school, to university and graduating with different professional degrees because of more education opportunities extended to them. While there was a prevalence of secretaries, nurses and teachers before, the new generation of women graduates were engineers, architects, doctors, lawyers and even managing directions. More women also got into politics.

Men were also reluctant to let their wives work in the past. They were the bread winners and women were expected to be in the kitchen and looking after the children. Today's men are more enlightened and in fact appreciate what the women bring to the table: The average Uganda couple shares the money burden. There are more and more women joining the workforce with all kinds of responsibilities and in different capacities. The men are happy to recommend their wives for a job. Some women have better paying and more prestigious jobs than their husbands and are still happily married.

The empowerment of women through education has led to great change in dynamics and more women are capable of handling positions that were previously dominated by men. So much has changed in regards to the working woman over the years; from the way she dresses to the salary earned and the positions they hold. With women empowerment and affirmative action, women can access loans, make their own businesses and compete favourably in the economy.

Lifestyles have also changed; today's woman is independent, she can afford to buy her own car, build a house and care for herself. This modernity has also brought some negativity because women today feel the need to dress provocatively with outrageous hairstyle and revealing clothes. Because of the independence, women feel that if they can afford to buy their own things like a car and houses, then they do not need a husband. This has brought about instability in homes, insecurity where the men feel threatened by the wife because she earns more. Even the stay-at-home mother can afford to work because of new technologies like the internet and phones. They are able to keep in touch with the outside world and pursue careers in the comfort of their home such as catering, consultancy and counseling. Many women today own businesses especially in the service industry.

The modern working woman is technologically empowered; she is confident, smart and in control; a far cry from the working woman of yesterday.

*(Slightly adapted from The New Vision: April 21, 2009)*

**Question**

In about 120 words, summarize the benefits and negative effects of empowering women.

**ROUGH COPY**

# FAIR COPY

**2A Read the passage below carefully and answer the questions that follow:-**

It was hot in the little bus and I was on the wrong side where the July sun beat on the windows. I shifted uncomfortably inside my best suit and eased a finger inside the tight white collar. It was a **foolish outfit** for this weather, but I was going for an interview and I had to make a good impression.

It hadn't seemed true when the letter came from Darrowby in the Yorkshire Dales. Mr. Farnon, Veterinary Surgeon, would like to see me on the Friday afternoon; I was to come to tea and if we **got on with each other**, I could stay on to be his assistant.

The driver crashed his gears again as we went into another steep bend. We had been climbing now for the last fifteen miles. I had seen the fences and hedges give way to dry stone walls. The walls were everywhere, miles of them.

Soon the bus was clattering along a narrow street which opened on to a square where we stopped. Above the window of a grocer shop I read 'Darrowby Co-op' we had arrived.

Trengate was a quiet street leading off the square. Now that I was here, right on the doorstep, I felt breathless, as though I had been running. If I got the job, this would be where I would find out about myself. There were many things to prove.

I rang the doorbell and instantly the afternoon peace was shattered by a distant barking like a wolf pack in full cry. The upper half of the door was of glass and, as I peered through, a river of dogs poured round the corner of a long passage and dashed itself with frenzied yells against the door. I stepped back and watched as the dogs appeared, sometimes two at a time, at the top of their leap, eyes glaring, jaws slavering.

I was thinking of ringing the bell again when I saw a large woman at the end of the passage. She rapped out a single word and the noise stopped as if by magic. When she opened the door the pack was slinking round her feet, showing the whites of their eyes and wagging their trucked - in tails.

"Good afternoon", I said with my best smile. "My name is Herriot, Mr. Farnon is expecting me".

"Mr. Herriot?" she said thoughtfully, "Surgery is from six o'clock to seven. If you want to bring a dog in, that would be your best time".

"No, no," I said, hanging on to my smile. "I'm applying for the position of assistant. Mr. Farnon said to come in time for tea."

"Assistant" well now, that's nice." The lines in her face softened a little. "I'm Mrs Hall. I keep the house for Mr. Farnon. He never said anything to me about you. He's gone to visit his mother.

I don't know when he'll be back. Never mind. Come in and have a cup of tea

*(Adapted from: If Only they could talk by James Herriot)*

## Questions

(02 marks)

- 2.1 What job is James Herriot hoping to get? ..... (02 marks)
- 2.2 Why did writer feel that it was important to wear a suit? ..... (02 marks)
- 2.3 “..... I would find out about myself. There were many things to prove.”  
(a) What do you think he might mean by these two statements? ..... (01 mark)
- (b) Write down two things that he might ‘have to prove’ ..... (01 mark)
- 2.4 Why does Mrs. Hall think James Herriot has called at the house? ..... (02 marks)
- 2.5 Briefly explain the meaning of the following words or phrases as used in the passage;  
i) ....**foolish outfit** ..... (½ mark)
- ii) ....**got on with each other**.... ..... (½ mark)
- iii) .... **Peered**..... ..... (½ mark)
- iv) .... **passage**.... ..... (½ mark)

**2B. Read the following passage carefully and answer questions that follow.**

On a Friday morning Jonah was summoned to the principal's office. As he climbed the ink-stained stairs, he had grave misgiving because he knew the principal was the sort of man described as long suffering; this meant that instead of having a boy flexed edgewise over a table and giving him a dozen strokes he vented his dispensing of "moral tonics" These either took the form of the boy finding himself at the bottom of his form for the term or his father receiving a stern reminder that his boy could not expect a helpful testimonial by which to procure his future advancement when it would be the school's pleasure to shed him on the world at large: Jonah had recently found himself in the principals bad books.

Jonah knocked freely at the door of the principal's office and waited. No answer came, out even the shuffling of papers from inside, but we knew that no one ever entered the office without knocking at least twice, so he knocked again, more firmly, "come in!" came the faint and distant response of a man much harassed by work. Jonah opened the door stepped inside and hesitated to allow the principal to change his mind.

"Come in and close the door. Keep the draught out". The principal said and Jonah moved nimbly into the office shutting the door behind him. His eyes did not look up. His upper lip was screwed up characteristically as if the room was full of bad smells.

Jonah moved forward and stood with his hands behind his back expecting the worst.

"What is it?" The principal asked at length, pretending absent-mindedness.

"you sent for me, sir?"

He looks at Jonah over his half lenses with the persistence of a judge who does not believe the evidence and trusts his own dissecting powers to shell out the truth.

"Ah! Yes" he said. Resting his papers and learning back in his rotating chair, his large hands cradled over his stomach. He stared at Jonah for time and then appeared to have come to a decision. "You know I have a good mind to punish you?"

"You have a perfect right, sir" Jonah replied before he could stop himself. The principal's eye tightened.

"You were very rude to me the other afternoon".

"Rude, Sir?"

"Yes, 'rude you've got a good brain Jonah but you won't use it. All these novels you read instead of doing your work won't get you anywhere. Luckily for you I know your mother well. We went to school together, that's why I have been so patient with you". Jonah tried to thank him but he couldn't form the words. Instead he murmured something about the heat.

"This is not the first hot weather we've had in Africa. Anyway that wasn't why I sent for you." Jonah's knees buckled with relief as if they had been struck from behind and were held on momentarily to the desk.

(02 marks@)

**Questions:**

- 2.6. The headmaster is described as “long-suffering,” this means that he;
- A. was able to bear pain well.
  - B. was very patient with wrong doers.
  - C. had been ill for some time.
  - D. made people suffer for their mistakes by beating them.
- 2.7. In paragraph 1 we are told that the headmaster .....
- A. believed in giving boys daily dose of medicine.
  - B. preferred to punish boys by beating them.
  - C. always found a boy a job when he left.
  - D. sometimes punished a boy by sending him to the bottom of the class.
- 2.8. The headmaster’s lip was “screwed up characteristically” this was
- A. just a habit he had acquired
  - B. because there was a bad smell in the room.
  - C. the result of an accident he had
  - D. because he was providing
- 2.9. The words “**trusts his own dissecting powers**” means
- A. relies on his own ability to get to the bottom of things
  - B. believes he is telling the truth
  - C. knows that he is always honest.
  - D. believes that he is better at dissection than anyone else.
- 2.10. The headmaster says that if Jonah continues to read novels
- A. his brain will be ruined.
  - B. he will not make a success of his life.
  - C. his mother will take him away from school.
  - D. he will never be anything but rude.

- 3A Re-write the following as instructed. Do not change the meaning**
- 3.1 Some men marry their fellow men. This is perverse. (**Begin: That.....**)
- .....  
.....

- 3.2 "Oh my God! What is this before me?" (**Re-write in reported speech**)
- .....  
.....

- 3.3 His friends do not like the way he gives much time to his girl friend.  
**(Re write using :..... objected to.....)**
- .....  
.....

- 3.4 I would rather stay at home than go out in this weather.  
**(Re write beginning: I would prefer.....)**
- .....  
.....

- 3.5 He was moving along the street when a Sino truck knocked him down.  
**(Begin: Moving.....)**
- .....  
.....

- 3.6 I bought only one kilogramme of meat because I did not have enough money.  
**(Re write beginning:.....if.....)**
- .....  
.....

- 3.7 All the accident victims would have perished if it were not for the vigilance of the local people. (**Re - write beginning: But for.....**)
- .....  
.....

3.8 The girl's performance was outstanding. The school administration decided to give her a reward. (**Re write beginning:** So.....)

.....  
.....  
.....

3.9 When you abuse your parents, you despise God's creative work.  
**(Begin : To.....)**

.....  
.....  
.....

3.10 The maid wrung the tunic after washing it. This was not called for.  
**(Join using “needn't”).**

.....  
.....  
.....

**3B. Complete sentences 3.11 to 3.20 with the most suitable answer among the given alternatives.**

3.11 Go back home ,.....?

- A. will you
- B. shall you
- C. shan't you
- D. will I

3.12 Peter ..... to buy a house.

- A. had no enough money
- B. had no any money
- C. did not have enough money
- D. had not some money

3.13 She has bought a.....dress.

- A. tight trendy grey Jamaican nylon party
- B. grey trendy nylon tight Jamaican grey
- C. trendy tight grey Jamaican party nylon
- D. Jamaican tight nylon party grey trendy

- 3.14 Everybody says Joyce stole the money but, .....  
A. I do not think  
B. she cannot be  
C. I do not doubt her  
D. I do not think so
- 3.15 The minister was charged ..... stealing iron sheets.  
A. with  
B. of  
C. against  
D. over
- 3.16 Do not count .....her for any help.  
A. over  
B. on  
C. upon  
D. by
- 3.17 You would stay at school if you .....school fees.  
A. paid  
B. have paid  
C. will pay  
D. had paid
- 3.18 He had paid all the money ..... the head teacher sent him back home.  
A. then  
B. and  
C. yet  
D. although
- 3.19 The teacher allowed only ..... to enter the classroom.  
A. my friend and I  
B. me and my friend  
C. I and my friend  
D. my friend and me
- 3.20 The water was .....polluted to be drunk.  
A. so  
B. too  
C. very  
D. rather

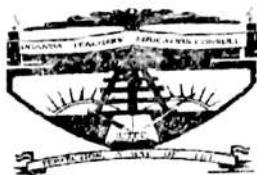
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**MATHEMATICS**

Paper 1

July / Aug. 2023

2 ½ hours

**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)****Uganda Certificate of Education****MATHEMATICS****Paper 1**

2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES:**

*Answer ALL questions in section A and any five questions from section B.*

*Any additional question(s) answered will not be marked.*

*ALL necessary calculations MUST be done on the answer booklet provided.*

*Therefore, no paper should be given for rough work.*

*Graph paper should be provided*

*Only silent non-programmable scientific calculators may be used.*

*Mathematical tables, squared papers are provided.*

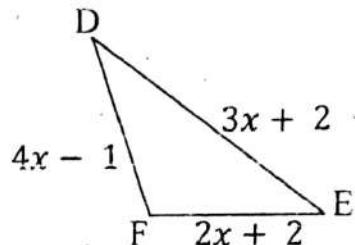
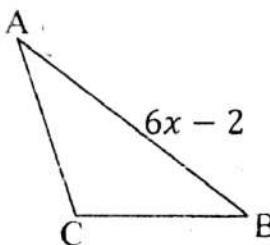
*State the degree of accuracy at the end of each answer attempted using a calculator or tables; and indicate **Cal** for calculator, **Tab** for mathematical table.*

**SECTION A (40 MARKS)**

*Answer ALL questions in this section*

1. Given that  $a * b = a^2 - b^2$ , find the value of  $x$  in  $x * \sqrt{3} = 7 * 4$ . (04 marks)

2. Triangle ABC is congruent to triangle DEF.

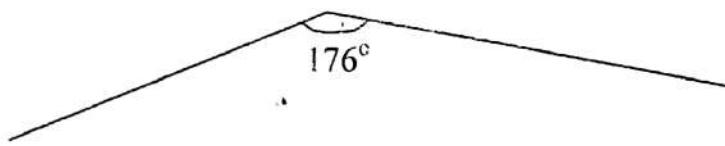


Find the length of the sides DF and FE. (04 marks)

3. Simplify;  $\frac{3x^2 - 12}{x - 2}$  (04 marks)

4. Find the inverse of matrix  $A = \begin{pmatrix} 2 & -3 \\ -1 & 4 \end{pmatrix}$ . (04 marks)

5. The diagram below shows only two of the sides of a regular polygon.



Each internal angle of the regular polygon is  $176^\circ$ . Calculate the number of sides of the regular polygon. (04 marks)

6. Given that  $270^\circ \leq x^\circ \leq 360^\circ$  and  $\sin x = \frac{-12}{13}$ , without using tables or a calculator, find the values of  $\cos x$ . (04 marks)

7. Triangle ABC with coordinates  $(0, 3), (-1, 0)$  and  $(1, 1)$  is transformed by the matrix  $\begin{pmatrix} -1 & 0 \\ 0 & 1 \end{pmatrix}$ . write the new coordinates of  $A^1B^1C^1$ . (04 marks)

8. Given that  $\begin{pmatrix} 4x & + & y \\ x & & \end{pmatrix} = \begin{pmatrix} 6 \\ 2y - 12 \end{pmatrix}$ . Find the value of  $x$  and  $y$ . (04 marks)

9. If  $100^a \times 1000^b = 10^w$ . Make  $W$  the subject of the formula. (04 marks)

10. The bearing of  $X$  from  $Y$  is  $244^\circ$ . Find the direction and bearing of  $Y$  from  $X$ .  
(04 marks)

### SECTION B

*Answer any FIVE questions from this section. All questions carry equal marks.*

11. The table below shows the data of 50 observations of marks scored by a certain number of students with the arithmetic mean of the data being 53.

Marks	40 – 44	45 – 49	50 – 54	55 – 59	60 – 64
Frequency ( $f$ )	$x$	10	13	18	$y$

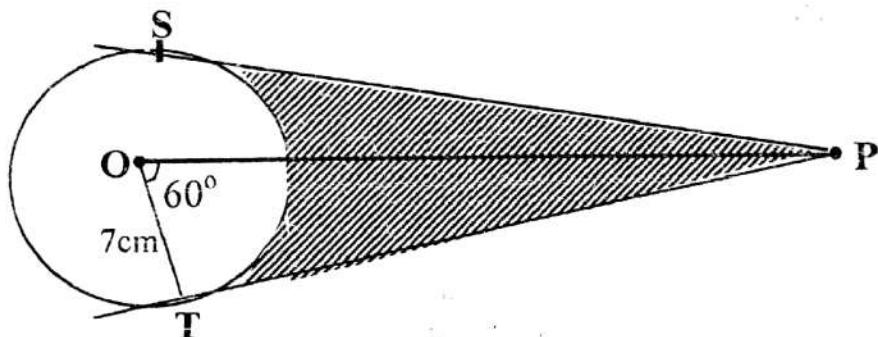
Find the values of the missing frequencies. *(12 marks)*

12. (a) Given that  $M = \begin{pmatrix} 3 & -1 \\ 4 & 6 \end{pmatrix}$ , find a matrix  $N$  such that  $MN = \begin{pmatrix} 14 & 0 \\ 0 & 14 \end{pmatrix}$ . Hence or otherwise find the inverse matrix for  $M$ . *(06 marks)*

- (b) Using matrix method, find the value of  $x$  and  $y$  which satisfy the equations;

$$\begin{aligned} 2x - y &= 1 \\ 3x + 2y &= 12 \end{aligned}$$
*(06 marks)*

13. In the diagram below, PT and PS are tangents to the circle with centre O. If  $\overline{OT} = 7\text{cm}$  and angle  $\text{TOP} = 60^\circ$ .



Calculate the area of the shaded region.  $\left(\text{Take } \pi = \frac{22}{7}\right)$  *(12 marks)*

14. Triangle PQR with coordinates  $P(3, -1)$ ,  $Q(3, -2)$  and  $R(5, -2)$  is mapped onto triangle  $P'Q'R'$  by a transformation whose matrix  $M = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$ . Triangle  $P'Q'R'$  is then mapped on to triangle  $P''Q''R''$  by a transformation whose matrix  $N = \begin{pmatrix} 2 & 0 \\ 0 & -2 \end{pmatrix}$ .

Determine the: *(05 marks)*

- (a) Coordinates of  $P^1$ ,  $Q^1$  and  $R^1$ . (05 marks)  
 (b) Coordinates of  $P^{11}$ ,  $Q^{11}$  and  $R^{11}$ . (02 marks)  
 (c) Single matrix of transformation that maps PQR on to  $P^{11}Q^{11}R^{11}$ .

15. Using a ruler, pencil and a pair of compasses only;

- Using a ruler, pencil and compasses only, answer the following questions.

  - Construct a triangle ABC with angle  $AB = 120^\circ$ ,  $AB = 7.5\text{cm}$  and  $\overline{AC} = 11.4\text{cm}$ .
  - Draw a perpendicular from C on to AB produced meeting AB at D.
  - Draw a circle with centre P and radius  $\overline{PD}$  where P is a point equidistant from D and AC. Hence, calculate the area of the circle correct to 2 decimal places. (12 marks)

16. Draw on the same coordinate axes the graphs of;

for  $-5 \leq x \leq 5$

- (a) Using your graphs find the points of intersection of (i) and (ii).  
 (b) Find a quadratic equation whose roots are the  $x$  – coordinates of the points you stated in (a) above. *(12 marks)*

17. A decorator is buying paint from his supplier. Under coat, which costs Shs. 120,000 per tin, and matt emulsion, which costs Shs. 240,000 per tin. He needs to buy at least 4 tins of undercoat and at least as many tins of matt emulsion as under coat. He has Shs. 2,160,000 to spend in total.

Let  $x$  be the number of tins of under coat he buys and  $y$  the number of tins of matt emulsion he buys.

- (a) Write down three inequalities apart from  $x \geq 0$ , or  $y \geq 0$  that the decorator must satisfy when buying his paint. Simplify the inequality if possible. **(03 marks)**

(b) By shading the unwanted regions, show the regions satisfying all the inequalities graphically. **(06 marks)**

(c) Use your graph to list all the possible combinations of paint he can buy. **(03 marks)**

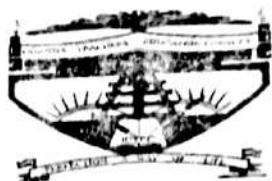
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**MATHEMATICS**

Paper 2

July / Aug. 2023

2 ½ hours

**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)****Uganda Certificate of Education****MATHEMATICS****Paper 2**

2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES:**

*Answer ALL questions in section A and any five questions from section B.*

*Any additional question(s) answered will not be marked.*

*All necessary calculations MUST be shown clearly with the rest of the answers.*

*Therefore, no paper should be given for rough work.*

*Silent non-programmable scientific calculators may be used.*

*Mathematical tables, squared papers are provided.*

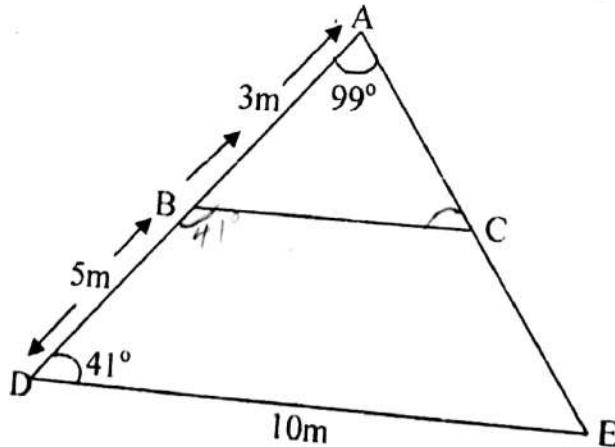
*State the degree of accuracy at the end of each answer attempted using a calculator or tables; and indicate **Cal** for calculator, **Tab** for mathematical table.*

**SECTION A (40 MARKS)**

Answer ALL questions in this section

**(04 marks)**

1. Given that  $(10_x)^2 = 25_{ten}$ , what is the value of  $x$ ? **(04 marks)**
2. In a school, 45 students learn Kiswahili (K) and of those 30 also learn Ateso (A) and 27 also learn Luganda(L). How many students learn all three languages? **(04 marks)**
3. Usually on Saturday, Lubaale jogs 28 km to an arena. If he were to walk 3 km/hr slower, he would need 3 extra hours to complete his work out. How fast does Lubaale jog? **(04 marks)**
4. Given that  $f^{-1}(x) = \frac{x}{5}$  and  $g^{-1}(x) = \frac{2(x+1)}{5}$ , find  $f^{-1}g^{-1}(9)$ . **(04 marks)**
5. The straight line joining point  $P(a, 7)$  and  $Q(13, a)$  is parallel to the line whose equation is  $3y + 2x = 9$ . Find the value of  $a$ ? **(04 marks)**
6. Given that  $\overrightarrow{OP} = \begin{pmatrix} 3 \\ 1 \end{pmatrix}$  and  $\overrightarrow{OQ} = \begin{pmatrix} -2 \\ -3 \end{pmatrix}$ . Calculate the;  
(i) Vector  $\overrightarrow{PQ}$   
(ii) Magnitude of vector  $\mathbf{PQ}$ . **(04 marks)**
7. Kuluse sells some clothes to Oboth and makes a profit of 28%. Oboth makes a profit of 35% by selling them for Ugx. 648,000. What did Kuluse originally pay for the clothes? **(04 marks)**
8. In the figure below, triangle ABC and triangle ADE are two similar triangles.

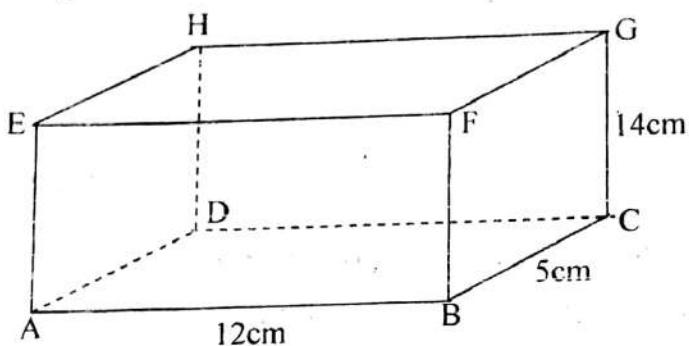


- (a) Find the length BC
- (b) Find the angle ACB.

**(04 marks)**

9. A metallic cylindrical pipe of uniform cross sectional area has an outer radius of 17.5cm and an inner radius of 10.5cm. It has a height of 3.5 metres. Calculate the volume in  $\text{cm}^3$  of the metal used to make the pipe. [take  $\pi = \frac{22}{7}$ ]. (04 marks)

10. The figure below shows a cuboid ABCDEFGH.



Calculate the angle formed between the planes ACGE and ABFE. (04 marks)

### SECTION B (60 MARKS)

*Answer any FIVE questions from this section. All questions carry equal marks.*

11. (a) Solve for  $y$  in the equation  $8^{(2y-1)} \times 32^y = 16^{(y+1)}$ . (04 marks)  
 (b) Find the lowest common multiple (LCM) and highest common factor (HCF) of 56, 72 and 104. (04 marks)  
 (c) Given that  $\frac{6}{3\sqrt{2} - 2\sqrt{3}} = a\sqrt{2} + b\sqrt{3}$  find the value of  $a$  and  $b$ . (04 marks)
12. 140 cars took a Ministry of transport test and 80 passed the test. Those which failed were faulty as follows:  
 - Breaks, steering and lights were 3  
 - Breaks and steering only were 5  
 - Breaks only were 12,  
 - Steering and lights only were 2,  
 - Breaks and lights only were 8  
 - Steering only and lights only were in equal numbers.  
 (a) Represent the above information on a venn diagram. (08 marks)  
 (b) Find how many were faulty for lights only. (02 marks)  
 (c) If a car was picked at random, what is the probability that, it had at least two faults. (02 marks)

- ✓ 13. (a) Three friends Kanamwangi, Munanura and Moya shared ugx. 4,800,000 in the ratio 8:5:3 respectively. How much money did each friend get? **(06 marks)**  
 (b) Find the next two terms in each of the sequences using the method of successive differences;
- (i) 2, 6, 12, 20, .....  
 (ii) 1, 5, 12, 22, .....  
**(06 marks)**

14. If the Ministry of Education decides to change tax policies for teachers to enable them get reasonable income by giving them allowance as follows:

Housing	Ugx. 100,000 per month
Marriage	Ugx. 240,000 per month
Electricity & water	Ugx. 60,000 per month
Medical	Ugx. 50,000 per month
Insurance	20% of the monthly gross salary.

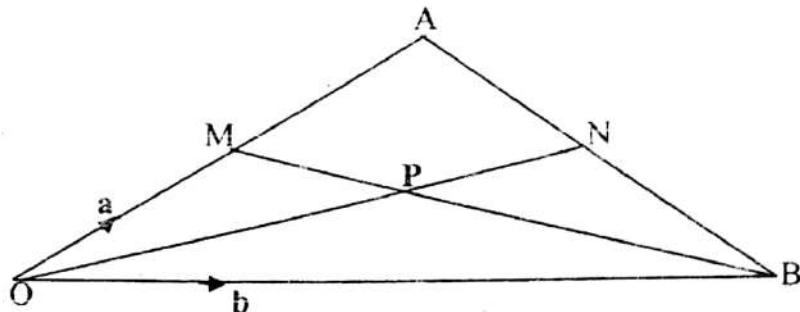
While the income tax is calculated as follows;

Income in Ugx.	Tax rate (%)
0 – 200,000	5
200,001 – 400,000	10
400,001 – 600,000	15
600,001 – 800,000	25
800,001 and above	30

If the teacher will earn a gross of Ugx. 1,200,000 per month. Calculate the;

- (a) Taxable income. **(05 marks)**  
 (b) Monthly income tax. **(05 marks)**  
 (c) Percentage of her monthly salary that goes to tax. **(02 marks)**
15. Given that  $f(x) = x^2 - 4x + 3$  and  $g(x) = 2x - 1$ , **(02 marks)**
- (a) Solve:  $f(x) = 0$   
 (b) find:  $g^{-1}(x)$  **(06 marks)**  
 (c) find the value of  $gf(-2)$  **(02 marks)**  
**(04 marks)**

16. The vector  $\overrightarrow{OA}$  and  $\overrightarrow{AB}$  form a triangle OAB with O the origin. If  $\overrightarrow{OA} = \mathbf{a}$ ,  $\overrightarrow{OB} = \mathbf{b}$ ,  $\overrightarrow{PB} = 2\overrightarrow{MP}$  and the points M and N are mid-points of  $\overrightarrow{OA}$  and  $\overrightarrow{OB}$  respectively.



- (a) Determine in terms of vectors  $\mathbf{a}$  and  $\mathbf{b}$
- (i)  $\overrightarrow{ON}$
  - (ii)  $\overrightarrow{BM}$
  - (iii)  $\overrightarrow{OP}$
- (b) If the coordinates of A and B are (6, 3) and (9, 6) respectively, find the coordinates of P.
17. A train leaves town A and travels towards town B at 48 km/hr. At the same time, another train leaves town B and travels towards A at a speed of 52 km/hr. If the two towns are 500km apart, calculate;
- (a) How far apart the trains are after 45 minutes. **(06 marks)**
- (b) How far from town A, they will be when they meet? **(04 marks)**
- (c) How long they will take to meet? **(02 marks)**

**END**

Name: .....Centre/Index No:...../.....

Signature: ..... School .....

**535/1**

**PHYSICS**

Paper 1

**July / Aug. 2023**

2 hours 15 minutes



**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)**

Uganda Certificate of Education

**PHYSICS**

Paper 1

**2 hours 15 minutes**

**INSTRUCTIONS TO CANDIDATES:**

Attempt **all** questions in this paper.

*Where necessary assume:*

$$\text{Acceleration due to gravity} = 10\text{ms}^{-1}$$

$$\text{Specific heat capacity of water} = 4200\text{Jkg}^{-1}\text{K}^{-1}$$

$$\text{Specific latent heat of fusion of water} = 340,000\text{Jkg}^{-1}$$

$$\text{Velocity of electromagnetic waves} = 3.0 \times 10^8 \text{ms}^{-1}$$

$$\text{Velocity of sound waves} = 330\text{ms}^{-1}$$

$$\text{Density of water} = 1000 \text{kgm}^{-3}$$

$$\text{Density of mercury} = 13600 \text{kgm}^{-3}$$

$$\text{Specific heat capacity of ice} = 2100 \text{Jkg}^{-1}\text{K}^{-1}$$

## SECTION A (40 Marks)

1. Which of the following is true about specific gravity?
  - A. It is measured in kilograms per cubic meter
  - B. It has no units
  - C. It compares densities of liquids to that of water only.
  - D. It relates densities of solids to water only.
2. The major difference between soft and hard X-rays is?
  - A. Velocity
  - B. Intensity
  - C. Frequency
  - D. Polarization
3. Why is iron considered a suitable material for the construction of the core of a transformer?
  - A. It is a metal.
  - B. It does not readily get hot.
  - C. It is easily magnetized.
  - D. It is an electrical conductor.
4. For a given sound system, the minimum frequency of a standing wave is in a
  - A. Fundamental mode
  - B. Lowest mode
  - C. Highest mode
  - D. Peak mode
5. The p.d of a battery is  $2.2\text{ V}$ . When connected across a  $5\Omega$  resistor, suddenly this p.d falls to  $1.8\text{ V}$ , calculate its internal resistance.
  - A.  $1.0\Omega$
  - B.  $1.1\Omega$
  - C.  $2.0\Omega$
  - D.  $2.1\Omega$
6. Which one of the following sources of energy are renewable energy?
  - A. Solar, Biogas and Tidal.
  - B. Fossil, Nuclear and Tidal.
  - C. Solar, Nuclear and Biogas.
  - D. Solar, Tidal and Fossil.

7. Bimetallic strips are applied in
- A. Vapor-pressure thermometers
  - B. Liquid expansion thermometers
  - C. Metal expansion thermometers
  - D. Resistance thermometers
8. The following affect the magnitude of surface tension except?
- A. Temperature
  - B. Dirt
  - C. Soap
  - D. Surface area
9. A radioactive source has a half-life of 80s. How long will it take for  $\frac{7}{8}$  of the source to decay?
- A. 10s
  - B. 70s
  - C. 240s
  - D. 640s
10. The working of bow and the arrow applies all the following except?
- A. Hooke's law
  - B. gravitational law
  - C. Newton's first law
  - D. Conservation of energy law
11. When a vibrating object moves backwards, it creates a region of low pressure called?
- A. Refraction
  - B. Reflection
  - C. Rarefaction
  - D. Retardation
12. A positively charged rod was moved near the cap of a negatively charged gold leaf electroscope, the effect observed in the divergence of the gold leaf is?
- A. Decrease
  - B. Increase
  - C. no effect
  - D. increase then collapse

13. The seven coloured lights of the spectrum can be recombined when the two prisms are placed in
- A. Horizontal position with respect to each other
  - B. Adjacent position with respect to each other.
  - C. Inverted position with respect to each other.
  - D. Vertical position with respect to each other.
14. Why are petrol tanks painted silvery bright?
- A. To absorb heat.
  - B. To reflect away heat
  - C. To prevent heat loss
  - D. To prevent evaporation of oil since its volatile
15. The dynamo on a bicycle converts
- A. Mechanical energy to light.
  - B. Electrical energy to light.
  - C. Mechanical energy to electrical.
  - D. Heat from friction to light
16. The length of an open pipe which produces a third harmonic of frequency 600Hz is?
- A. 0.23m
  - B. 0.83m
  - C. 1.10m
  - D. 1.50m
17. A lead acid cell must be charged regularly to;
- A. prevent charge leakage
  - B. avoiding topping up
  - C. avoid drying up
  - D. avoid sulphation
18. The half-life of radon gas is 4 days. If some radon gas is accidentally released into a closed laboratory, how long would it take for the concentration of the gas to fall below 1% (one percent) of its original value?
- A. 4 days
  - B. 12 days
  - C. 28 days
  - D. 56 days

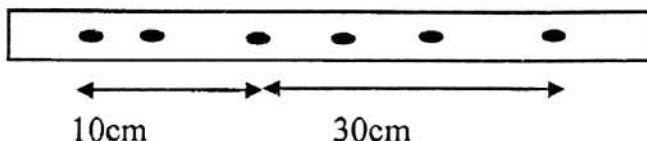
19. The flow of the fluid is said to be streamline if
- A. there is an obstacle in the fluid.
  - B. the shape of the tube changes abruptly in diameter or direction.
  - C. The speed of the fluid becomes too great.
  - D. The pattern of the fluid flow does not change over
20. The effect of excessive frost collection inside a deep freezer is?
- A. Lowers the freezer temperature
  - B. Acts as an insulator and slows cooling.
  - C. Keeps the food content fresh
  - D. Liquidates the refrigerant
21. At one end of a ripple tank 180cm across, a 12Hz vibrator produces waves whose wavelength is 60mm. The time needed to cross the wave is?
- A. 0.25 s
  - B. 2.5s
  - C. 7.2s
  - D. 720s
22. Lenz's law is applied in the iron ring experiment in order to predict the direction of
- A. Force in the secondary coil
  - B. Force in the primary coil
  - C. Induced current in the secondary coil
  - D. Induced e.m.f in the primary coil
23. Which of the following is **NOT** true about Ultraviolet radiations?
- A. Emitted from fairly high energy changes in electron structure of atoms
  - B. Originates from hot radioactive bodies
  - C. Originates from electric discharge through gases, particularly mercury vapor in quartz envelopes.
  - D. Emitted from high frequency oscillatory electric currents.
24. Objects viewed through a blue-tinted glass appear blue because;
- A. glass reflects only blue.
  - B. objects reflect the blue colour.
  - C. glass transmits only blue
  - D. glass is transparent

25. In an experiment to determine the focal length of a converging lens while using an illuminated object and a plane mirror, the illuminated object is put at the
- A. Focal point of the lens
  - B. Centre of curvature of the lens
  - C. Principle axis of the lens
  - D. Centre of the plane mirror and the lens
26. Shoulder bags and bag packs have wide padded straps so that the weight of the bag fall over
- A. a large area to maximize pressure
  - B. a small area to maximize pressure
  - C. a large area to minimize the pressure
  - D. a small area to minimize the pressure
27. Which of the following applications of Hooke's law illustrates deformation as a depression of the free end?
- A. Loading a wire
  - B. Loading a spiral spring
  - C. Loading a horizontal beam fixed at one end
  - D. Tightening a watch spring
28. During an atomic explosion, the energy released is due to conversion of
- A. protons to neutrons
  - B. chemical energy into heat energy
  - C. mechanical energy into nuclear energy
  - D. mass into energy
29. Which one of the following devices uses flow of current through a conductor in a magnetic field to produce motion?
- A. Microphone.
  - B. Loud speaker.
  - C. D.C generator.
  - D. Alternator.
30. Whenever the surfaces in contact tend to move or move with respect to each other , the force of friction comes into play
- A. Only if the objects are solid
  - B. Only if one of the two objects is liquid
  - C. Only if one of the two objects is gaseous
  - D. Irrespective of whether the objects are solid, liquid or gaseous.

31. The lightning conductor operates on the principle of
- A. the law of electrostatics
  - B. local action
  - C. action at a point
  - D. neutral point

32. Which of the following are properties of images formed in a plane mirror
- i. Same size as the object
  - ii. Laterally inverted
  - iii. Virtual
  - iv. Real
- A. i , ii and iv only
  - B. i , ii, and iii only
  - C. i , iii , and iv only
  - D. i , ii ,iii and iv

33. Figure 1.



The diagram in figure 1 above shows dots printed by a ticker timer of frequency 100Hz. calculate the acceleration of the locomotive

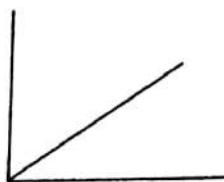
- A.  $50 \text{ ms}^{-2}$
- B.  $100 \text{ ms}^{-2}$
- C.  $150 \text{ ms}^{-2}$
- D.  $200 \text{ ms}^{-2}$

34. Which of the following occurs during ‘induction’ in a four –stroke cycle in a diesel engine?
- A. The piston admits air only into the cylinder
  - B. The air is compressed to its minimum volume
  - C. Fuel is pumped into the higher
  - D. Both valves close and the piston moves up.

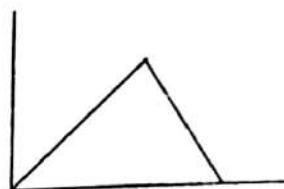
35. Notches and cracks spread more rapidly when brittle materials are under
- A. Strain
  - B. Tension
  - C. Compression
  - D. Extension

36. Which of the following velocity-time graphs represents the motion of a body thrown vertically upwards?

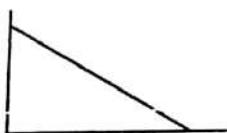
A.



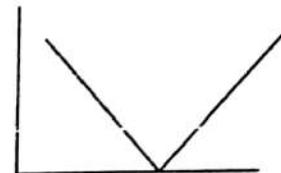
C.



B.

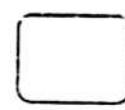


D.



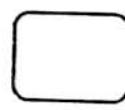
37. A uniform meter rule is provided at the 20cm mark and balanced by a mass of 300g put at the 10cm mark, the mass of the meter rule is?

- A. 1g
- B. 50g
- C. 100g
- D. 600g



38. Which of the following are the effects of force on a body?

- (i) Stops motion
  - (ii) Changes mass
  - (iii) Changes shape
  - (iv) Changes direction
- A. (i), (ii) (iii) and (iv) only
  - B. (ii), (iii) and (iv) only
  - C. (i), (iii) and (iv) only
  - D. (i), and (ii) only



39. In a hydraulic car brake, the area of the piston on which the effort is applied is made smaller in order to

- A. Facilitate the movement of the piston downwards.
- B. Overcome a force as large as possible of the load.
- C. Transmit pressure equally through
- D. Obtain a pressure as large as possible



40. The device which melts to break the circuit when too much current flow is called

- A. a socket
- B. a socket breaker
- C. a fuse
- D. earth wire



## SECTION B (40 marks)

41. a) A gas jar full of air is inverted over another jar full of brown nitrogen dioxide gas (*nitrogen dioxide gas is lesser than air*)
- i) State what is observed if the setup is left to stand for some time? (01 mark)
- .....  
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.....
- ii) What conclusion can be drawn from the observation in a(i)? (01 mark)
- .....  
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- b) A small amount of water placed on wax forms small droplets but spreads out when placed on glass. Explain. (02 marks)
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42. a) Define the term '**lateral inversion**' as used in reflection of light. (01 mark)
- .....  
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- b) Explain, with the aid of a ray diagram how the eye sees the image of a bright point formed by a plane mirror. (02 marks)
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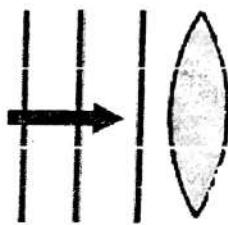
- c) State the effect of doubling the distance between pinhole and screen on the image formed in a pin-hole camera. (01 mark)

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43. a) Define **diffraction** as applied to wave properties. (01 mark)

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- b) Fig.2 below shows plane waves approaching a convex lens.

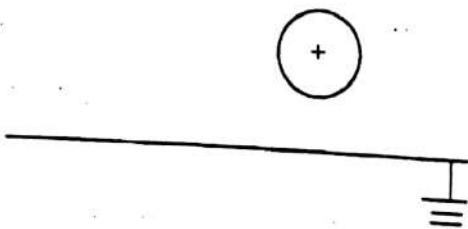


- i) Sketch the pattern to show how the wave is refracted. (1½ mark)  
ii) How can refraction of such waves be illustrated in a ripple tank? (1½ mark)

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44. a) i) Give any two properties of electric field line. (1mark)

(ii) Fig 3.



The diagram in figure 3 above shows a positively charged spherical conductor near an earthed metal plate. Sketch the electric field between them. (01 mark)

- b) Draw a well labeled diagram of a gold leaf electroscope. (02 marks)

45. a) What is meant by the **electromotive force** of a cell? (01 mark)

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- b) Two cells each of e.m.f 1.5V and internal resistance of 2ohms are connected in parallel across a 1ohm resistor.

- i) Sketch the circuit showing the arrangement. (01 mark)

- ii) Calculate the current through the circuit (02 marks)

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46. a) State **Archimedes' principle**. (01 marks)

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- b) A ship of mass  $1.3 \times 10^6 \text{ kg}$  floats in sea water. If the ship enters fresh water, what mass of cargo must be unloaded so that the same volume of water is displaced as before? (Take: Density of fresh water =  $1000 \text{ kg m}^{-3}$ , Relative density of sea water 1.03). (02 marks)
- .....  
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- c) Explain why a cork released below the surface of water rises. (01 mark)
- .....  
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47. a) Define the term 'couple' as used in forces. (01 mark)
- .....  
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- b) A uniform rod of mass  $5 \text{ kg}$  and length  $1.6 \text{ m}$  is placed horizontally across smooth supports  $X$  and  $Y$ . If  $X$  is  $10 \text{ cm}$  from one end and  $Y$  is  $50 \text{ cm}$  from the other end. Find the reactions at  $X$  and  $Y$ . (02 marks)
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- c) State the two conditions for a mechanical system to be in equilibrium. (01 mark)
- .....  
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48. a) Define the term '**neutral point**' as used in magnetism. (01 mark)

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- b) Using the domain theory, explain demagnetization. (02marks)

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- c) Draw the resultant field lines of a bar magnet placed in the earth's magnetic field with north pointing in the earth's magnetic field. (01 mark)



49. a) State the law of conservation of linear momentum. (01 mark)

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- b) Explain why the recoil velocity is much less than the forward velocity of the bullet. (01 mark)

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- c) An inflated balloon contains 2.0g of air which is allowed to escape from a nozzle at a speed of  $4.0\text{ms}^{-1}$ . Assuming that the balloon deflates at a steady rate in 2.5s, what is the force exerted on the balloon? (02 marks)

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50. a) Briefly explain the differences between mass and weight. (02 marks)

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b) (i) Find the weight of an object whose mass is 20g. (01 marks)

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(ii) Why is an astronaut often weightless when in an Earth-orbiting spacecraft? (01 mark)

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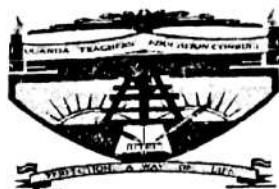
**END**

**PHYSICS**

Paper 2

July /Aug. 2023

2½ hours

**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)****Uganda Certificate of Education****PHYSICS****Paper 2**

2 hours 15 minutes

**INSTRUCTIONS TO CANDIDATES:***Answer FIVE questions.**Any additional question(s) answered will not be marked**Mathematical tables, and silent non-programmable calculators may be used**Where necessary use the following constants;*

$$\text{Acceleration due to gravity, } g = 10\text{ms}^{-2}$$

$$\text{Specific heat capacity of copper} = 400 \text{ Jkg}^{-1}\text{K}^{-1}$$

$$\text{Specific heat capacity of water} = 4200 \text{ Jkg}^{-1}\text{K}^{-1}$$

$$\text{Specific latent heat of fusion of water} = 340,000 \text{ Jkg}^{-1}$$

$$\text{Speed of sound in air} = 330\text{ms}^{-1}$$

$$\text{Density of water} = 1000 \text{ kgm}^{-3}/ 1 \text{ gcm}^{-3}$$

$$\text{Speed of light in vacuum} = 3.0 \times 10^8 \text{ ms}^{-1}$$

1. (a) What is meant by the following terms? (01 mark)
- (i) Plumbline (01 mark)
- (ii) Moment of a force
- (b) (i) State two conditions for a body to be in mechanical equilibrium. (02 marks)
- (ii) A uniform metre rule of mass 95g is balanced on a knife edge when a 5 g mass is hung at 10cm mark from one end. How far is the knife edge from the centre of the metre rule? (04 marks)
- (c) (i) Explain what happens to a metre rule balanced on finger tip when the centre of gravity is not exactly above the tip. (03 marks)
- (ii) With the aid of a labeled diagram, explain how the principle of moments is applied to the beam balance with two scale pans when measuring unknown mass. (5 marks)
2. (a) (i) Why do a thick glass crack when hot liquid is poured in it? (04 marks)
- (ii) A glass flask is fitted with a rubber bung and a length of glass tubing. The set up is placed in a vertical position with the end of the tube below the surfaces of water in a vessel as shown in figure 1 below. Explain what is observed when the flask is warmed. (04 marks)

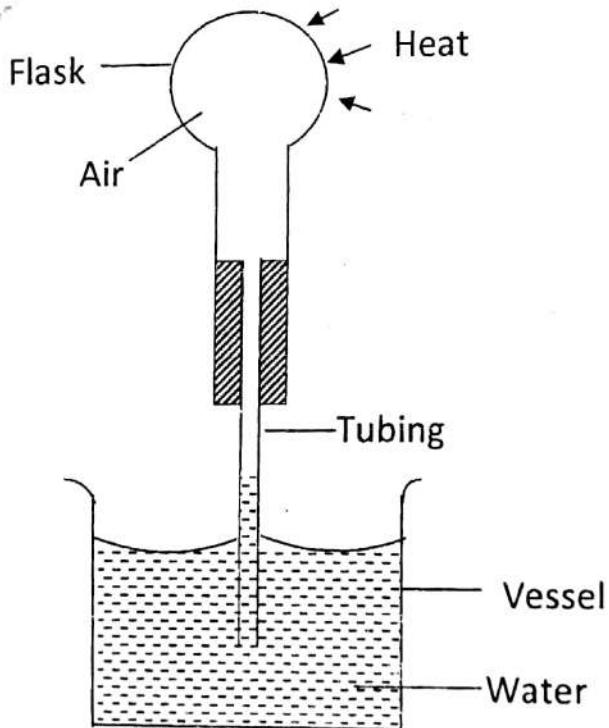
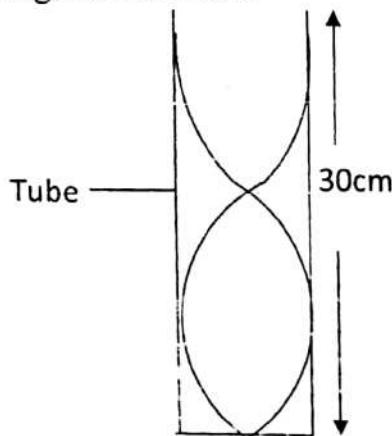


Fig. 1

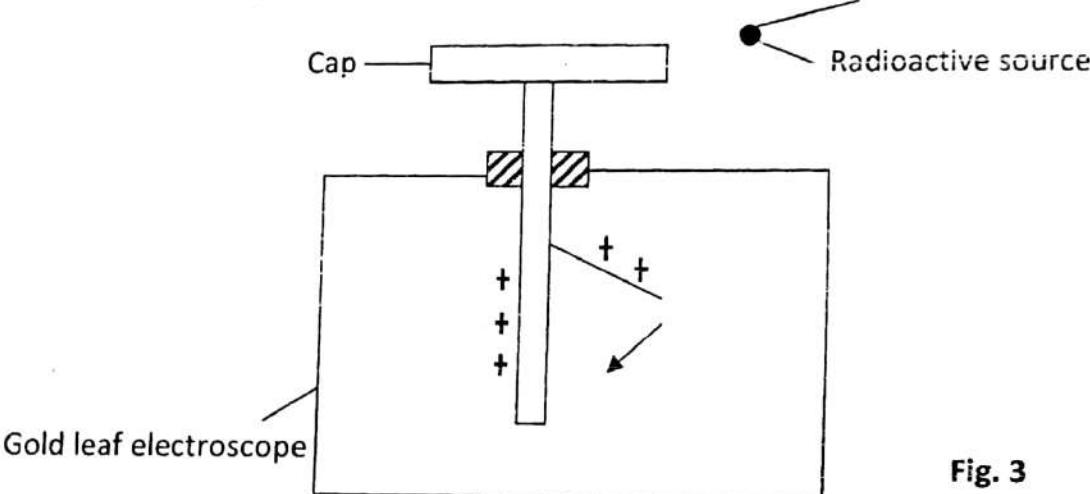
- (b) (i) Explain what happens when a bimetallic strip is heated. (03 marks)
- (ii) Give two uses of bimetallic strips. (02 marks)
- (c) Air is trapped by a light frictionless piston in a cylinder of a uniform cross - sectional area. Air column of length 30.0cm at a pressure of 110 Pa is compressed by moving down a piston through a distance of 8.0cm. What is the new pressure in the cylinder if the temperature of air is kept constant? (03 marks)

3. (a) (i) Distinguish between energy and power. (02 marks)  
(ii) Describe the action of a four stroke engine. (06 marks)
- (b) A truck of total mass 15 tonnes moving at  $1\text{ms}^{-1}$  collides with a stationary truck of mass 10 tonnes. If the trucks are automatically connected so that they move off together. Find;  
(i) Their common velocity after collision. (03 marks)  
(ii) The kinetic energy lost during collision. (03 marks)
- (c) Give two sources of renewable energy. (02 marks)
4. (a) (i) Define the term power of a lens. (01 mark)  
(ii) Describe an experiment to determine the focal length of a converging lens using an illuminated object and plane mirror. (04 marks)
- (b) A small object is placed 6cm away from a diverging lens of focal length 10cm. By means of a drawn scale diagram, find:  
(i) the nature of the image.  
(ii) the position of the image. (05 marks)
- (c) Give three similarities between a lens camera and a human eye. (03 marks)
- (d) During the production of a pure spectrum:  
(i) Why is an illuminated slit placed at the principal focus of the converging lens? (01 mark)  
(ii) What is the significance of the prism? (02 marks)
5. (a) (i) Give four properties of electromagnetic waves. (02 marks)  
(ii) Explain why ultra sonics are used in echo sounders. (03 marks)
- (b) Briefly explain how surgical instruments can be cleaned using ultra sound. (03 marks)
- (c) (i) By including the term frequency, distinguish between music and noise. (02 marks)  
(ii) Describe an experiment to show that sound waves require a material medium for their transmission. (04 marks)
- (d) Figure 2. Shows a stationary wave formed in a closed tube of length 30cm. Find the wave length of this wave. (02 marks)



**Fig.2**

6. (a) (i) State two defects of a simple cell. (02 marks)  
(ii) Describe the action of a simple cell. (05 marks)
- (b) Briefly explain the production of geothermal electricity. (03 marks)

- (c) Why is it dangerous to connect a piece of copper wire across the terminals of a 2V lead acid cell which has an internal resistance of  $0.01\ \Omega$ ? (03 marks)
- (d) Draw the electric circuit symbols for;  
 (i) standard resistor  
 (ii) switch  
 (iii) cell (03 marks)
7. (a) (i) State two uses of tracers. (02 marks)  
 (ii) A radioactive source is brought near the cap of a positively charged electroscope as shown in figure 3 below. The leaf divergence reduces. Explain the cause for this observation. (04 marks)
- 
- Fig. 3
- (b) Carbon,  $^{14}_6C$  undergoes a beta decay and turns into element N. Write a balanced nuclear equation for the decay. (02 marks)
- (c) What changes occur in atomic number and mass number of a radioactive atom if the nucleus emits.  
 (i) alpha particle (02 marks)  
 (ii) gamma rays (02 marks)
8. (a) Briefly explain the production of cathode rays in a cathode ray tube. (04 marks)  
 (a) (i) Define the term neutral point. (01 mark)  
 (ii) Explain the term demagnetization using the domain theory. (03 marks)
- (b) (i) Draw the magnetic flux due to a solenoid. (02 marks)  
 (ii) A step up transformer is designed to operate from a 20 V supply and delivers energy at 250 V. If the transformer is 90% efficient, determine the current in its primary winding when the output terminals are connected to a 250 V, 100 W lamp. (04 marks)
- (c) (i) With the aid of a well labeled diagram, describe the operation of a bicycle dynamo. (04 marks)  
 (ii) State two factors that increase the power of the dynamo. (02 marks)

**END**

**GEOGRAPHY**

Paper 1

July / Aug. 2023

2½ hours



**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)**

**Uganda Certificate of Education**

**GEOGRAPHY**

**Paper 1**

2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES:**

*This paper consists of parts I and II.*

*Part I and section A of Part II are Compulsory.*

*Answer only one question from section B of Part II.*

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

*Any additional question(s) answered will not be marked.*

**PART I**  
**OBJECTIVE – TYPE QUESTIONS (30 MARKS)**

1. Which of the following minerals has the largest market in East Africa?
  - A. Mica
  - B. Trona
  - C. Gold
  - D. Limestone
2. The major problem faced by the people living in North -Eastern Uganda is
  - A. Food shortages,
  - B. Inadequate social services,
  - C. Poor transport and communication services,
  - D. Shortage of skilled work force.
3. The rapid degradation of wet lands in East Africa is mostly caused by
  - A. Mining activities
  - B. industrialization
  - C. Crop cultivation
  - D. Fishing activities
4. Which one of the following activity has greatly attracted tourists in East Africa?
  - A. High level of advertising .
  - B. Viewing wild game
  - C. Mountain climbing
  - D. Sport fishing
5. The major land use pattern in the western arm of the East African Rift valley is
  - A. Mining
  - B. Wild life conservation
  - C. Tourism
  - D. Crop cultivation
6. The climate of Gulu in East Africa can best be described as
  - A. Wet and dry most of the year
  - B. Wet and cool most of the year
  - C. Cool and dry most of the year
  - D. Hot and wet most of the year

7. Which one of the following is an example of a stratified rock in East Africa?
- A. Pumice
  - B. Granite
  - C. Gypsum
  - D. Gabbro
8. Cacti and thorn bushes in East Africa are associated with areas of
- A. Water logged conditions
  - B. Hot and dry conditions
  - C. Cool and wet conditions
  - D. Wet and hot conditions
9. Which of the landform features are developed by marine deposition in East Africa?
- A. Beaches and Atolls
  - B. Spits and beaches
  - C. Headlands and caves
  - D. Caves and spits
10. Livestock farming in East Africa is greatly affected by?
- A. Outbreak of diseases,
  - B. Land shortage
  - C. Theft
  - D. Weather changes
11. The increased pattern of rural to rural migration in Uganda is mostly caused by
- A. Weather changes
  - B. Looking for employment
  - C. Land conflicts
  - D. Outbreak of diseases
12. Which one of the following is an example of a perennial cash crop grown in East Africa?
- A. Rice
  - B. Cocoa
  - C. Maize
  - D. Cotton

13. Weathering by frost shattering in East Africa is mainly caused by
- A. Temperature changes
  - B. Human activities
  - C. Heavy rainfall
  - D. Chemical reactions
14. The existence of woodland vegetation in East Africa has greatly been reduced by
- A. Crop cultivation
  - B. Wild fires
  - C. Mining activities
  - D. Lumbering
15. The high level of reduced infant mortality rates in East Africa is caused by
- A. Improved nutrition,
  - B. Reduced birth rates
  - C. Better health services
  - D. Few diseases
16. The natural collapse of loose rock masses along steep slopes in East Africa is mainly brought by
- A. Settlement on steep slopes
  - B. Clearing of vegetation
  - C. Heavy rainfall
  - D. Weak rocks
17. The pattern of water vapour in an area can be represented on the maps using
- A. Isobars
  - B. Isonephs
  - C. Isohyets
  - D. Isotherms
18. The major problem facing Mombasa town is
- A. Pollution
  - B. High crime rates
  - C. Growth of slums
  - D. Land shortage

19. Which of the following conditions have greatly led to the low level of production of capital goods in East Africa?
- Few investors
  - Limited market
  - Inadequate raw materials
  - Low levels of technology
20. Wild life conservation in Murchison Falls National Park faces a serious problem of
- Poaching
  - Wild fires
  - Encroachment
  - Remoteness
21. The most common fresh water fish exported from East Africa is
- Tilapia
  - Nile perch
  - Mackerel
  - Lung fish
22. Which one of the following factors is greatly responsible for the low level of development of regional tourism in East Africa?
- Inaccessibility
  - Political instability
  - Low levels of advertising
  - Poverty
23. The major goods exported from East Africa to the European Union countries are majorly made up of
- Minerals
  - Agricultural goods
  - Textile goods
  - Pharmaceutical items.
24. The development of road transport in Uganda is mostly hindered by
- Low levels of technology
  - Limited skilled labour
  - Rugged terrain
  - Limited capital

25. Wanseko and Ntoroko fish landing sites are found on the shores of Lake  
A. Albert  
B. Kyoga  
C. Tanganyika  
D. Victoria
26. Which of the following best explains why the temperatures of Nairobi are cooler than those of Kampala?  
A. Nairobi is far from the Equator  
B. Kampala is on a hilly area  
C. Kampala is on a low altitude  
D. Nairobi is on the rift valley
27. Which one of the volcanic mountains below is found on the floor of the Eastern Arm of the East African Rift valley?  
A. Kilimanjaro  
B. Longonot  
C. Rwenzori  
D. Muhavura
28. Dendritic drainage pattern in East Africa is developed at the  
A. Rufiji basin  
B. Rift valley  
C. Highlands  
D. Victoria basin
29. Which one of the following tree species in East Africa is threatened by extinction?  
A. Mahogany  
B. Podocarp  
C. Eucalyptus  
D. Cypress
30. Rapid population growth in most parts of Uganda has mainly led to the growth of  
A. Better social services  
B. Urban centres  
C. Plantation farming  
D. Industries

**PART II**

**MAP WORK, PHOTOGRAPH INTERPRETATION, FIELD WORK AND EAST AFRICA.**

*Answer three questions from part II, including questions 1, and 2 which are compulsory*

**SECTION A**

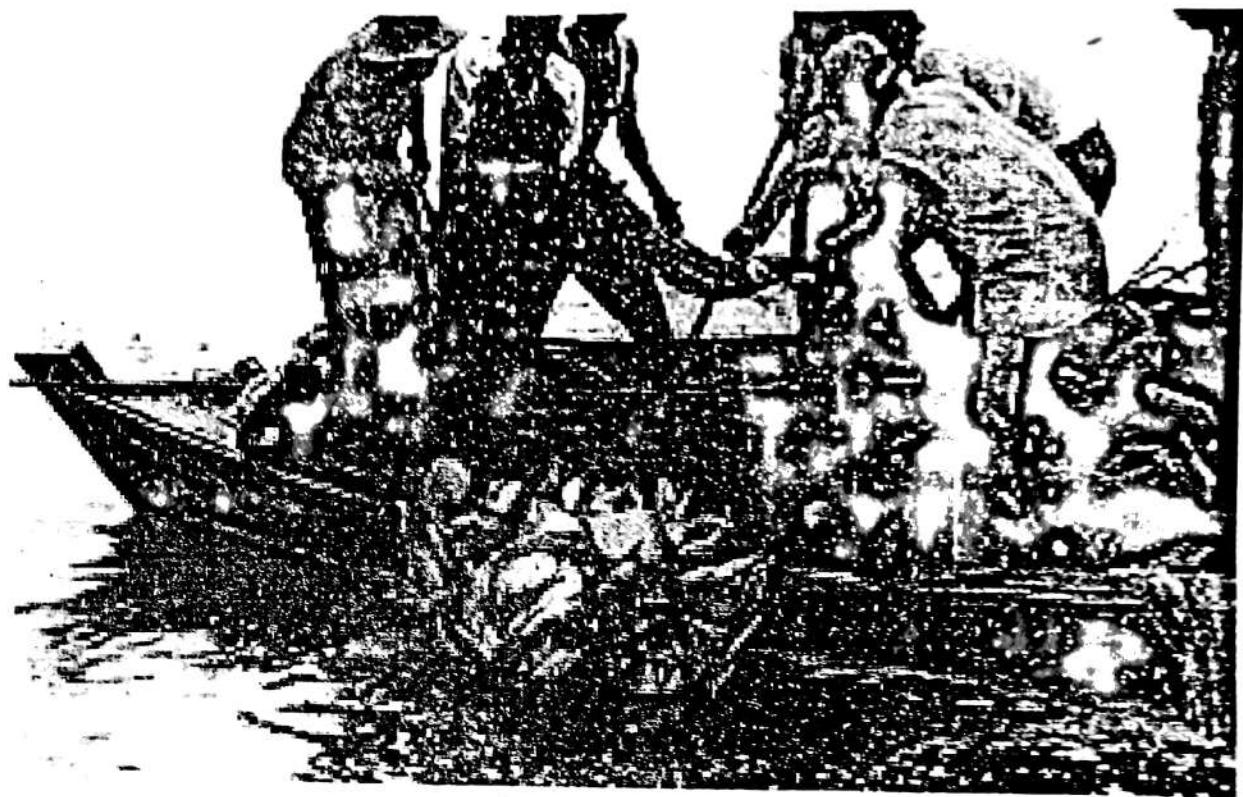
**1. COMPULSORY QUESTION: MAP WORK**

Study the **EAST AFRICA 1: 50,000 (UGANDA) BULISA** map extract below and do the following activities;

- a) State the;
  - i) Grid reference of Kimbambura road junction.
  - ii) Physical feature at grid reference 290465, (02 marks)
- b) Determine;
  - i) average height of the area shown on the map
  - ii) why the area on the map is regarded as relatively flat. (04marks)
- c) Giving evidence from the map, identify any **two**;
  - i) Potential tourist activities,
  - ii) Factors influencing settlement, in the area shown on the map. (08 marks)
- d) Draw a cross section of the area between grid reference 300420 and 270480, on it mark and name:
  - i) Main trucks,
  - ii) Settlement
  - iii) Boundaries,
  - iv) Victoria Nile. (06marks)

**2. COMPULSORY QUESTION: PHOTOGRAPHIC INTERPRETATION.**

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



- a) Name the;
  - i) Economic activity.
  - ii) Type of photograph shown above. (02marks)
- b) Describe the physical conditions that have enabled the occurrence of the activity above. (05marks)
- c) Giving evidence from the photograph, outline the problems facing the people carrying out the economic activity above. (06marks)
- d) Giving reasons for your answer, name any one area in East Africa where the photograph was taken. (02marks)

### 3. COMPULSORY FIELDWORK QUESTION(15MARKS)

Answer *all* parts of this question.

For any *one* fieldwork you have conducted:

- (a) State the:
- (i) topic, (02marks)
  - (ii) objectives, of the fieldwork study. (02marks)
- (b) Draw a line transect of the area studied and on it, mark and name the
- (i) relief features, (05marks)
  - (ii) land use types.
- (c) Explain the relationship between relief and land use activities in the area of your study. (03marks)
- (d) What difficulties did you face during the study? (03marks)

### SECTION B: EAST AFRICA (20 MARKS)

*Attempt any one from this part.*

4. a) (i) Define the term faulting? (02 marks)
- (ii) Name two major landforms created by faulting in East Africa. (02marks)
- b) With the help of diagrams, describe how any **one** of the landforms in a (ii) above was formed. (05marks)
- c) Explain the importance of the landform feature chosen in (b) above to the people of the area. (06 marks)
- d) Outline the problems facing people living in faulted areas of East Africa. (05 marks)
5. a) (i) Differentiate between **Renewable** and **Non-Renewable** energy resources. (04 marks)
- (ii) Name any **three** examples of renewable energy resources used in East Africa. (03 marks)
- b) Explain the role of renewable energy resources to the economic development of Uganda. (06 marks)
- c) Outline the challenges facing the energy sector in East Africa. (04 marks)
- d) What measures are being taken to improve on the supply of energy resources in East Africa? (03 marks)

6. Study the table I below showing the value of export and import trade in East Africa between 2018 and 2021 and do the activities that follow:-

Table I: East African export and import trade value between 2018 and 2021 in Million US Dollars.

YEAR	EXPORT VALUE	IMPORT VALUE
2018	3,574.3	7,753.7
2019	4,470.2	8,250.5
2020	3,674.0	9,450.4
2021	4,250.6	10,244.3

*Source: Trade patterns in East Africa; economic indicators, World Bank Report 2022 pg 54.*

- a) Calculate the total value of;
  - i) Export trade,
  - ii) Import trade, in East Africa between 2018 and 2021. (04 marks)
- b) Draw a line graph to show the value of import trade in East Africa between 2018 and 2021. (06 marks)
- c) Outline the importance of foreign trade to the economic development of East Africa. (06 marks)
- d) Explain the various ways in which export trade is being promoted in East Africa. (04 marks)
  
- 7. (a) Draw a sketch map of East Africa and on it mark and name the following:
  - (i) Industrial towns: Mombasa, Jinja and Dar es Salaam,
  - (ii) Kampala- Mombasa highway,
  - (iii) Railway lines: Dar es salaam- Mwanza and Mombasa- Kisumu. (07 marks)
- (b) Explain the contribution of road and railway transport to the economic development of East Africa. (06 marks)
- (c) Outline the challenges facing road and railway transport in East Africa. (04 marks)
- (d) What are the dangers of road and railway transport on the physical environment in East Africa? (03 marks)

**END**

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**GEOGRAPHY**  
Paper 2  
**July/Aug.2023**  
2½ hours



**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)**

**Uganda Certificate of Education**

**GEOGRAPHY**

**Paper 2**

**2 hours 30 minutes**

### **INSTRUCTIONS TO CANDIDATES:**

*This paper consists of two sections:*

**Part I Rest of Africa and Part II Studies in Development**

*Answer two questions from part I and two from part II.*

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

*Any additional question (s) answered will not be marked.*

## PART 1: THE REST OF AFRICA.

*Answer TWO questions in this part.*

1. (a) Draw a sketch map of Africa and on it mark and name:
  - i) Gulf of Guinea and Aden.
  - ii) Basins: Chad and Congo.
  - iii) Highlands: Ethiopia highlands and Atlas Mountains.
  - iv) The Rift valley.(08marks)
- (b) Describe the process that led to the formation of the Atlas Mountains.(05marks)
- (c) How has Atlas Mountains influenced human activities carried out in the area.(07marks)
- (d) Outline the problems faced by people settled around highland areas in Africa.(05marks)

2. Study table I: below showing Urban population as percentage of the total population of selected African countries (2000 – 2015).

Country	% in 2000	% in 2015
Egypt	40.7	44.8
Dem. Rep. of Congo	26.1	29.1
Sudan	13.0	24.6
Ethiopia	8.6	15.4
South Africa	47.3	50.8
Zambia	23.3	43.1

- a) State the country with the:
  - i) highest.
  - ii) lowest change in urban population between 2000 and 2015 .(02 marks)
- b) Calculate the percentage of total population living in rural areas in 2015 for:
  - i) Ethiopia
  - ii) South Africa.
  - iii) Egypt.(03 marks)
- c) (i) Name any one city in each country in (b) above with a population of over 500,000 people.(03marks)  
(ii) With specific examples, describe the factors which have favoured population growth in any one country named in (c) (i) above.(08marks)
- d) Outline the:
  - (i) Problems faced by people living in urban centres of Africa.(05 marks)
  - (ii) Steps being taken to solve the problems in (d) (i) above.(04 marks)

3. Draw a sketch map of Africa and on it mark and label:
- (i) two marine fishing grounds  
 (ii) two fresh water fishing grounds.  
 (iii) fishing ports: Casablanca and Walvis Bay.  
 (iv) Ocean Currents: Canary and Agulhas. (09marks)
  - With examples, describe the conditions which have favoured fishing activities in any **one** African country. (06 marks)
  - Mention any two :  
 (i) types of fish caught;  
 (ii) methods of fishing used in the country chosen in (c) (i) above. (04 marks)
  - Outline the measures being taken to improve commercial fishing in Africa. (06marks)

4. Study table II: below showing the climate of station A and answer the Questions that follow:

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp °C	12	13	14	16	19	22	25	26	24	21	17	13
Rainfall (mm)	110	90	90	60	35	15	3	10	30	30	115	135

*Adapted: Africa by H.R Jarret (1979). Macdonald and Evans pg. 31.*

- Draw a suitable graph to show the information given in the table above. (08marks)
- Calculate the,
  - Mean annual temperature of the station. (01 marks)
  - Annual temperature range of the station (01 mark)
  - Mean annual rainfall of the station (01 marks)
- (i) Describe the characteristics of the climate of station A. (06 marks)
  - State the hemisphere where station A is located. (01 mark)
- Outline the:
  - Economic activities that can be carried out in station A. (03 marks)
  - problems faced by people living in the area where this station is located. (04 marks)

## PART II: STUDIES IN DEVELOPMENT

Answer **TWO** questions from this part.

Choosing **ONE** question from one region.

### REGION I: NORTH AMERICA.

5. Study **fig 1**: map of the Tennessee valley provided below and answer the questions that follow.

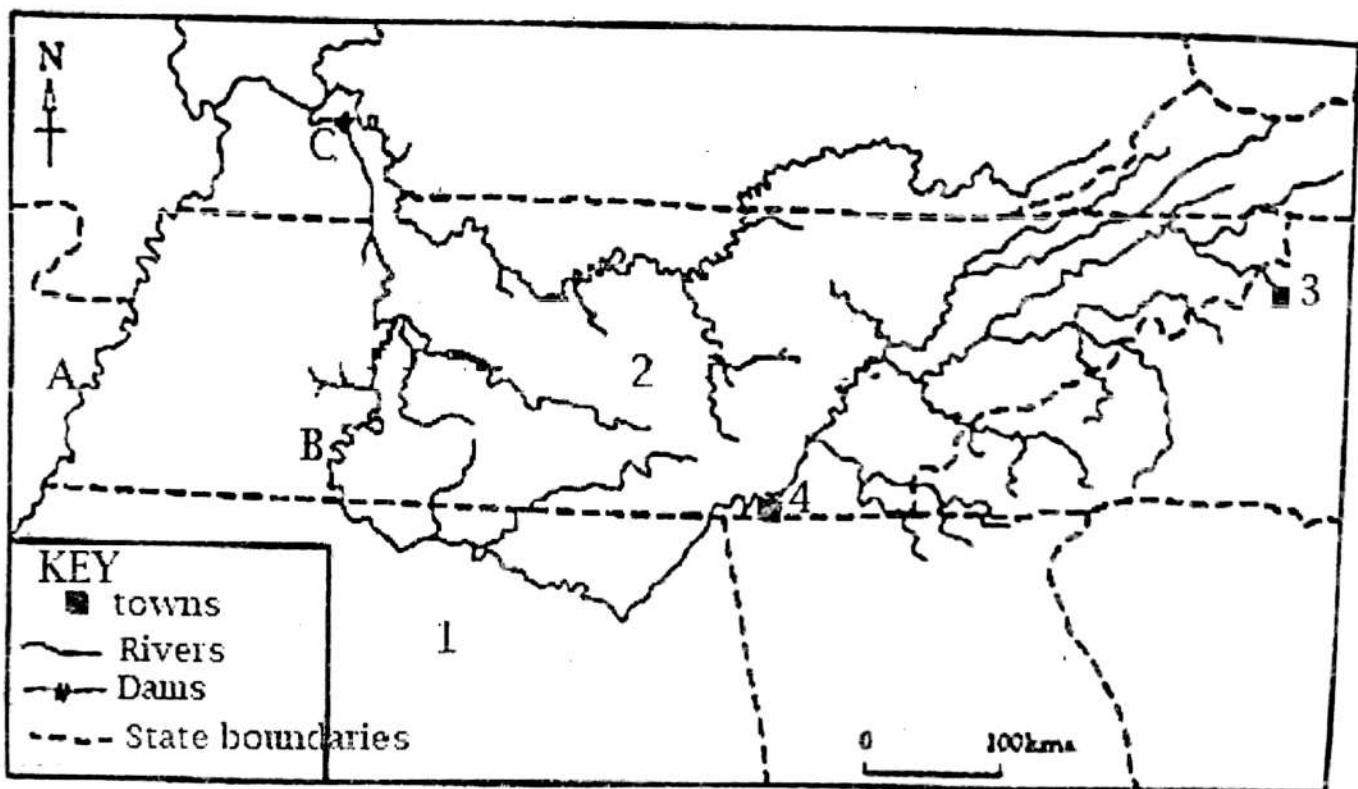


Fig 1

- Name the:
  - rivers marked: **A** and **B**
  - dam marked **C**.
  - states marked: **1** and **2**.
  - towns marked: **3** and **4**. (07marks)
- Describe the factors that led to the establishment of the Tennessee valley multi-purpose scheme. (06marks)
- Explain the contribution of the Tennessee valley multi-purpose scheme to the development of the region. (07marks)
- Outline the problems which resulted from the establishment of the Tennessee valley multi-purpose scheme. (05marks)

6. Study table III: below showing grain production in Canada (2014/15) and answer the questions that follow.

Type of Grain grown	Production ('000 metric tonnes)
Wheat	31,025
Barley	10,237
Corn	14,194
Oats	3,906
Rye	223
<b>Total</b>	<b>59,585</b>

*Adapted: statistics Canada and Industry consultation pp9. www.ray.glen .com pdf/Canada.*

- a) Draw a pie chart to show the relative importance of each type of grain in Canada (07marks)
- b) (i) Identify the type of grain produced in;
- Largest,
  - Smallest, quantities in Canada. (02marks)
- (ii) Name two grain producing provinces in Canada. (02marks)
- c) With examples; describe the conditions which have favoured the growing of grains in the Canadian provinces identified in (b) (ii) above. (08 marks)
- d) In which ways is grain production being improved in Canadian prairies? (06marks)
7. a) Draw a sketch map of California and on it mark and name.
- (i) Industrial centres: San Francisco and Los Angeles.
  - (ii) Highlands: Sierra Nevada ranges and Coastal ranges.
  - (iii) Rivers: Sacramento and Friant.
  - (iv) Any one; oil field and gas field. (09marks)
- b) Identify any three categories of industries found in California. (03marks)
- c) With examples, describe the factors that have favoured the development of any one category of industry in California. (08marks)
- d) Explain the challenges facing industrial development in California. (05marks)

## **REGION II: THE RHINELANDS.**

### **Choose one question**

8. a) Draw a sketch map of Switzerland and on it mark and name:
- i) Three physical regions.
  - ii) Rhine rivers.
  - iii) Lakes: Constance and Neuchatel
  - iv) towns: Basel, and Geneva. (09marks)
- b) (i) Name any one land use type in each physical relief region in (a) (i) above. (03marks)
- (ii) Describe the influence of physical factors on land use in Switzerland. (06 marks)
- c) Explain the problems facing land use in the Alpine region in Switzerland. (05marks)
- d) Outline the steps being taken to solve the problems in (c) above. (05marks)

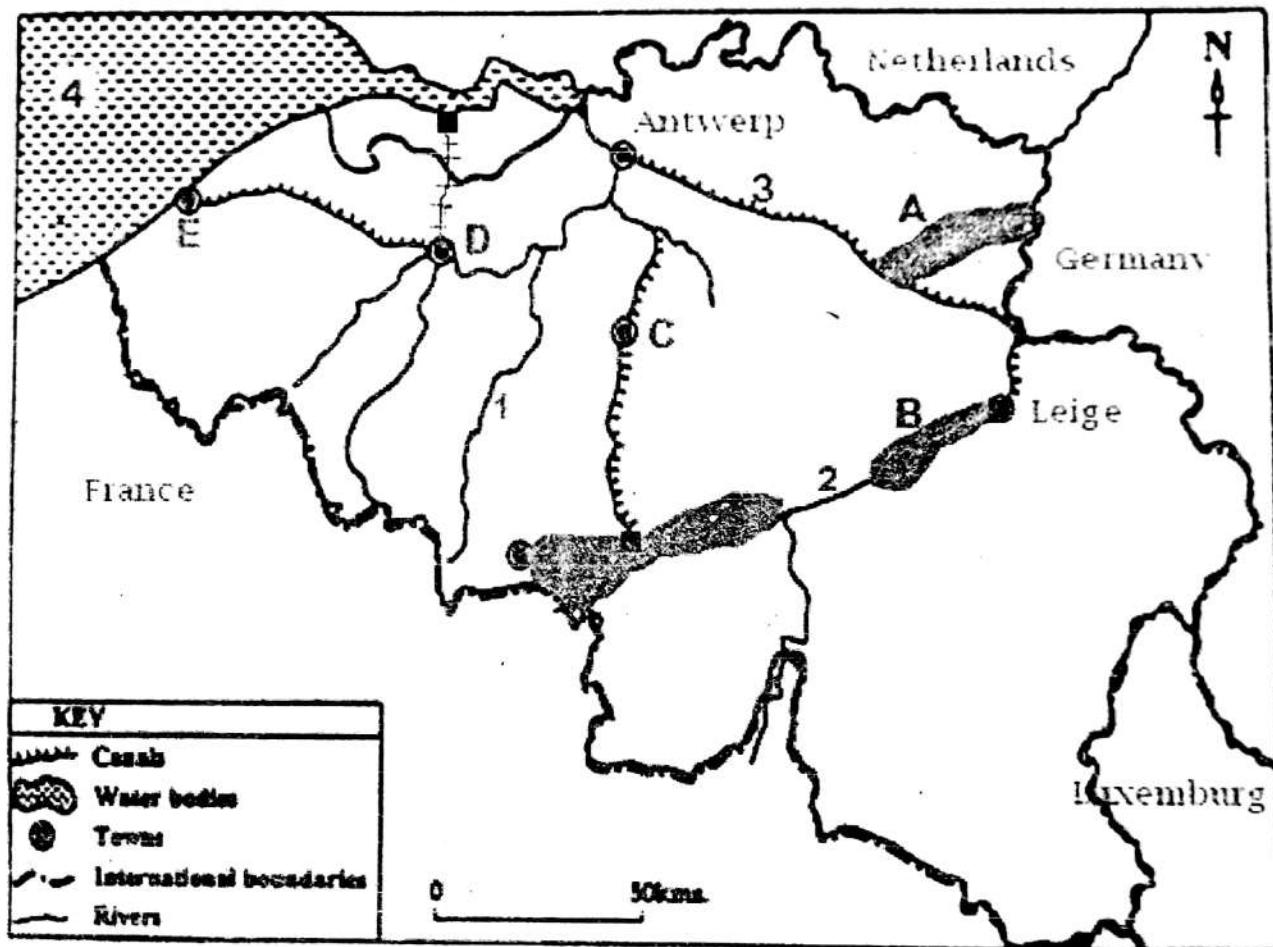
9. Study table IV: below showing the volume of cargo handled by the Rhine waterway (2006 and 2011) and answer questions that follow:

<b>Year</b>	<b>Volume of Cargo (in '000 metric tons)</b>
2006	82,200
2007	84,500
2008	87,050
2009	90,000
2010	95,100
2011	96,250

- a) (i) Calculate the percentage change in volume of cargo handled by Rhine waterway between 2006 and 2011. (02marks)
- (ii) Draw a line graph to show the volume of cargo handled by Rhine waterway between 2006 and 2011 as reflected in the table. (08 marks)
- b) Describe the:
- (i) Trend of volume of cargo handled by the Rhine waterway between 2006 and 2011. (02marks)

- (ii) Factors which have contributed to the development of River Rhine as an important international waterway. (06marks)
- c) Explain the benefits of the Rhine waterway to the Rhineland. (06marks)
- d) Outline the problems faced by the Rhine waterway. (03marks)

10. Study **figure 3**, map of Belgium and answer questions that follow:



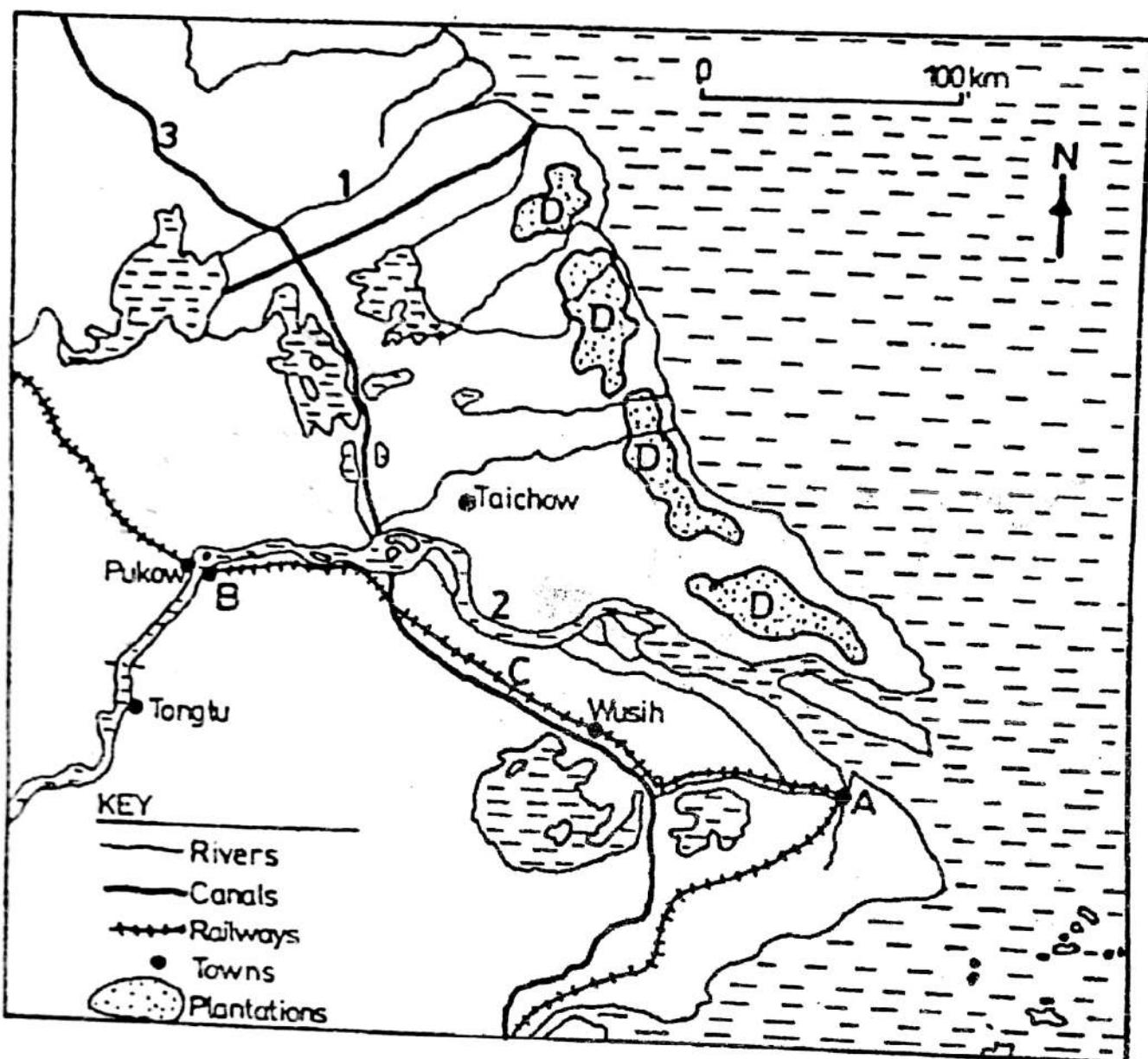
**Fig. 3**

- a) Name the:
- Rivers marked 1 and 2,
  - Water body: 3 and 4,
  - Coalfields marked A and B,
  - Urban centres marked C, D and E. (09marks)
- b) Describe the conditions which have favoured coal mining in any one region named in (a) (iii) above of Belgium. (06marks)
- c) Explain the effects of mining on the environment in Belgium. (05marks)
- d) Outline the steps to be taken to solve the problems resulting from mining in Belgium. (05marks)

### REGION III: CHINA

Choose one question

11. Study figure 4, map of Yangtze delta region and answer questions that follow.



- a) Name the:
- Rivers marked: 1 and 2.
  - Canal marked 3.
  - Towns marked: A and B.
  - Railway line marked C.
  - Plantation crop grown in areas marked D.
- b) Describe the factors which have favoured agriculture in the Yangtze delta. (07marks)
- c) Explain the contribution of agriculture to the development of the Yangtze region. (05marks)
- d) Outline the problems faced by farmers in the Yangtze delta region (07marks)  
(04marks)

12. (a) Draw a sketch map of China and on it mark and name.
- Rivers: Haung-He and Chang Jiang.
  - Ports : Kwoloom and Shanhai.
  - The Grand canal.
- (06marks)
- (b) Outline the:
- problems facing the use of inland waterways in China.
  - steps being taken to improve navigation in the inland waterways .
- (05marks)
- (04marks)
- (c) Explain the contribution of inland waterways to the development of China.
- (06marks)
- (d) State any two:
- Exports
  - imports handled by the ports named in (a) (ii) above.
- (04marks)

13. Study figure 5: map of Hong Kong and its hinterland and answer questions that follow;

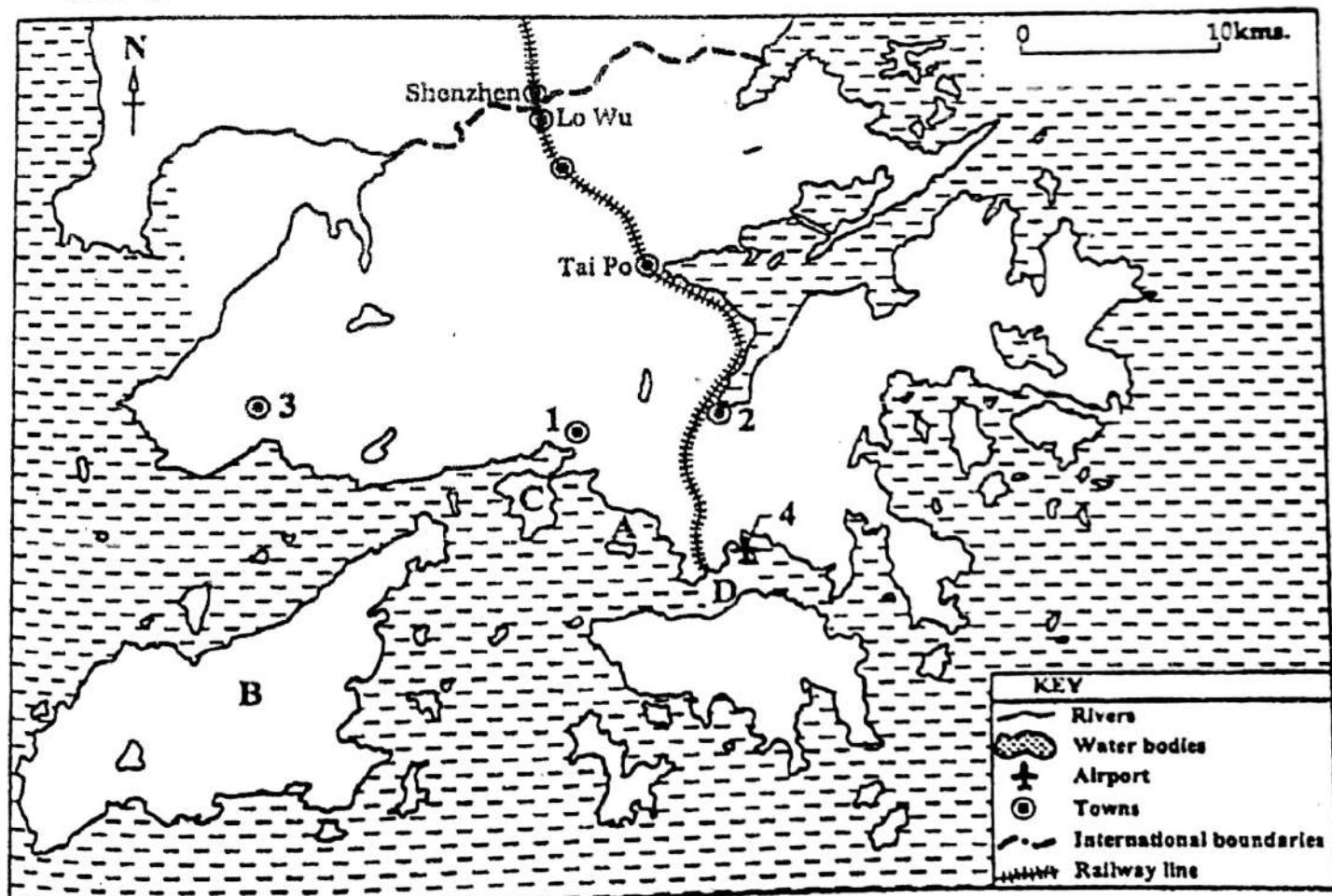


Fig.5

- a) Name the:
- i) Islands marked A, B and C.
  - ii) Harbour marked D,
  - iii) Towns marked 1, 2 and 3.
  - iv) Airport marked 4. (08marks)
- b) Describe the conditions which have favoured the development of Hong Kong as a port. (06marks)
- c) Explain the contributions of Hong Kong port to the development of China. (05marks)
- d) Outline the:
- (i) Problems faced by Hong Kong port. (03marks)
  - (ii) Steps being taken to improve Hong Kong port. (03marks)

**END**

Name: ..... Index No: .....

Signature: ..... School: .....

**545/1**

**CHEMISTRY**

Paper 1

July/Aug.2023

1 ½ hours



**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)**

**Uganda Certificate of Education**

**CHEMISTRY**

**Paper 1**

1 hour 30 minutes

**INSTRUCTIONS TO CANDIDATES:**

*This paper consists of 50 objective type questions.*

*Answer ALL questions.*

*You are required to write the correct answer; A, B, C or D in the box provided on the right hand side of each question.*

*Molar gas volume at s.t.p is  $22.4 \text{ dm}^3$*

*Do not use pencil.*

**For Examiners' Use Only**

## SECTION A

1. Which of the following can be used to separate a mixture of paraffin and water?  
A. Thistle funnel  
B. Burette  
C. Dropping funnel  
D. Filter funnel
  
2. Which one of the following metals reacts more vigorously with cold water?  
A. Magnesium  
B. Calcium  
C. Potassium  
D. Sodium
  
3. Which one of the following particles is responsible for transmission of electric current in a graphite electrode?  
A. Electrons  
B. Atoms  
C. Protons  
D. Ions
  
4. Which one of the following nitrates decomposes when heated to produce di-nitrogen oxide gas ( $N_2O$ )?  
A. Potassium nitrate  
B. Ammonium nitrate  
C. Zinc nitrate  
D. Silver nitrate
  
5.  $20\text{ cm}^3$  of  $0.3\text{M}$  sodium hydroxide solution was completely neutralised by  $15\text{ cm}^3$  of  $0.13\text{M}$  solution of acid  $\text{H}_n\text{Y}$ . The value of  $n$  is  
A. 1  
B. 2  
C. 3  
D. 4
  
6. Which one of the following acids can oxidize iron(ii) ions to Iron(iii) ions  
A. Dilute sulphuric acid  
B. Dilute nitric acid  
C. Concentrated hydrochloric acid  
D. Concentrated nitric acid

7. Which one of the following gases re-lights a glowing splint?  
A. Carbon dioxide  
B. Hydrogen gas  
C. Nitrogen  
D. Di-nitrogen oxide
8. Which one of the following contains the same number of moles as 5.0 g of potassium?  
(K=39, N=14, Ca=40, O=16 Cu=64)  
A. 3.6 g of nitrogen gas  
B. 2.05 g of oxygen gas  
C. 4.5 g of calcium  
D. 6.4 g of copper
9. Which one of the following hydrocarbons is an example of a saturated hydrocarbon?  
A.  $C_2H_4$   
B.  $C_3H_6$   
C.  $C_2H_6$   
D.  $C_4H_8$
10. Which one of the following is observed when potassium iodide is added to copper (ii) sulphate solution?  
A. White precipitate in a brown solution  
B. Brown precipitate  
C. Blue precipitate  
D. Yellow precipitate
11. The electronic configuration of an atom of an element Z is 2:8:1. Which one of the following is true about the oxide of Z? It..  
A. is solid at room temperature  
B. is a gas at room temperature  
C. is soluble in organic solvent  
D. is a covalent compound
12. Which one of the following alloys is formed by mixing Lead and Tin?  
A. Bronze  
B. Solder  
C. Steel  
D. Brass

13.  $25\text{cm}^3$  of 0.1M sodium hydroxide solution reacted with  $10\text{cm}^3$  of dilute sulphuric acid completely. The concentration in  $\text{moldm}^{-3}$  of sulphuric acid is;
- A. 0.125M
  - B. 0.500M
  - C. 0.250M
  - D. 1.000M
14. Which one of the following drying agents is **not** used to dry carbon dioxide gas?
- A. Silica gel
  - B. Concentrated sulphuric acid
  - C. Anhydrous calcium chloride
  - D. Calcium oxide
15. Which one of the following solutions will have a **pH** above 7?
- A. Sodium chloride
  - B. Ammonium chloride
  - C. Sodium hydroxide
  - D. Hydrochloric acid
16. Which one of the following metals will displace iron (ii) ions from its solution?
- A. Zn
  - B. Cu
  - C. Ag
  - D. Pb
17. The moles of hydrogen ions in 10 g of phosphoric acid ( $\text{H}_3\text{PO}_4$ ) is  
(H=1, P=31, O=16)
- A. 0.102 moles
  - B. 0.306 moles
  - C. 0.034 moles
  - D. 0.204 moles
18. Which one of the following gases is used in hardening of oils?
- A. Ethene
  - B. Nitrogen
  - C. Hydrogen gas
  - D. Propene

19. The volume of a 0.25M of a hydrochloric acid required to completely neutralize 25.0 cm<sup>3</sup> of a 0.1M sodium carbonate solution is given by;

A.  $\frac{25.0 \times 0.1}{2 \times 0.25}$

B.  $\frac{2 \times 25.0 \times 0.25}{0.1}$

C.  $\frac{25.0 \times 0.1}{0.25}$

D.  $\frac{2 \times 25.0 \times 0.1}{0.25}$

20. The type of bond formed when atom  $\frac{23}{11}J$  and  $\frac{37}{17}Y$  is

A. Ionic bond

B. Co-ordinate bond

C. Covalent

D. Metallic

21. Which one of the following solutions turns reddish-brown bromine water to colorless

A. Ethane

B. Propane

C. Propene

D. Methane

22. Which one of the following is the use of adding calcium chloride to sodium chloride during extraction of sodium?

A. Increasing the solubility of sodium chloride

B. Increasing the melting point of sodium chloride

C. Increasing the boiling point of sodium chloride

D. Lowering the melting point of sodium chloride

23. Which one of the following solutions react with lead(ii) nitrate solution to form a precipitate that dissolves when heated and re-precipitates on cooling?

A. Sodium nitrate

B. Sodium sulphate

C. Sodium carbonate

D. Sodium chloride

24. The rate of evolution of hydrogen gas during the reaction between zinc and hydrochloric acid can be increased by
- A. Using zinc granules
  - B. Using dilute hydrochloric acid
  - C. Adding copper(ii) sulphate
  - D. Reducing the temperature of the reaction mixture
25. Which one of the following gases forms dense white fumes with ammonia gas
- A. Chlorine
  - B. Sulphur dioxide
  - C. Oxygen
  - D. Hydrogen chloride
26. 0.1 mole of a compound  $YHCO_3$  weighs 8.4 g. The formula mass of the oxide of Y is (O=16)
- A. 62
  - B. 42
  - C. 39
  - D. 23
27. When carbon dioxide is bubbled into a solution of calcium hydroxide, a white precipitate is formed. The precipitate dissolves in excess carbon dioxide forming colorless solution. The white precipitate is
- A. Calcium oxide
  - B. calcium hydrogen carbonate
  - C. Calcium carbonate
  - D. Calcium dicarbide
28. Element Z burns in nitrogen to form a white solid which dissolves in water to produce a colorless gas that forms dense white fumes with hydrogen chloride gas. Element Z is;
- A. Calcium
  - B. Sodium
  - C. Iron
  - D. Aluminum
29. Which one of the following anions when in solution will react with acidified barium nitrate to form a white precipitate?
- A. Chloride
  - B. Carbonate
  - C. Sulphate
  - D. Nitrate

30. The heat produced when 2 g of propanol ( $C_3H_7OH$ ) was completely burnt raised the temperature of 100g of water by  $24.5^{\circ}C$ . The enthalpy of combustion of propanol in KJ mol<sup>-1</sup>. ( $C = 12$ ,  $H = 1$ ,  $O = 16$ )

A.  $\left( \frac{60 \times 24.5 \times 4.2 \times 100}{2 \times 1000} \right)$

B.  $\left( \frac{4.2 \times 24.5 \times 2 \times 100}{60 \times 1000} \right)$

C.  $\left( \frac{4.2 \times 24.5 \times 4.2 \times 100}{2} \right)$

D.  $\left( \frac{4.2 \times 24.5 \times 2 \times 1000}{100} \right)$

31. Which one of the following statements is true about temporally hardness of water? it

A. Consist of dissolved calcium sulphate and magnesium sulphate

B. Is not softened by boiling

C. Is softened by boiling

D. Does not form scum with soap

32. Which one of the following reagents forms yellow precipitate with potassium iodide solution?

A. Barium nitrate solution

B. Lead (II) nitrate solution

C. Silver nitrate solution

D. Barium chloride solution

33. The formula of the compound formed between a metal L and a non-metal M is  $L_2M_3$ . Which one of the following is the ion formed by L?

A.  $L^{2+}$

B.  $L^{2-}$

C.  $L^{3+}$

D.  $L^{3-}$

34. An alkaline gas Y reacts with hydrogen chloride gas to form dense white fumes. Which one of the following chloride salts is used in laboratory preparation of gas Y?

A. NaCl

B.  $NH_4Cl$

C.  $CaCl_2$

D. KCl

35. The molarity of the solution made by dissolving 5g of anhydrous sodium carbonate ( $\text{Na}_2\text{CO}_3$ ) in  $100\text{cm}^3$  solution is (Na = 23, C= 12, O=16).

A.  $\frac{5 \times 100}{106 \times 1000} M$

B.  $\frac{5 \times 1000}{106 \times 100} M$

C.  $\frac{106 \times 100}{5 \times 1000} M$

D.  $\frac{106 \times 1000}{5 \times 100} M$

36. Sodium peroxide reacts with water to produce a colorless gas **J**, that re-lights a glowing splint. The most suitable method of collecting dry gas **J** is

A. Upward delivery

B. Down ward delivery

C. Over water

D. Using a gas syringe

37. Which one of the following is the molecular formula of the monomer used in formation of polyethene

A.  $\text{C}_2\text{H}_4$

B.  $\text{C}_2\text{H}_2$

C.  $\text{C}_2\text{H}_6$

D.  $\text{C}_3\text{H}_6$

38. An element **P** is immediately below iodine in group VII of the periodic table. Which one of the following properties is for element **P**?

A. Exists as a liquid at room temperature

B. Is colorless

C. Would be displaced from its salts by bromine

D. Forms covalent compounds with group I elements

39. A hydrocarbon compound **F**, consists of carbon and hydrogen atoms only in a mole ratio of 1:2 respectively. 6.0 g of **F** occupy  $3200 \text{ cm}^3$  at s.t.p. The molecular formula of **F** is (1 mole of a gas occupies  $22400 \text{ cm}^3$  at s.t.p)

A.  $\text{C}_2\text{H}_4$

B.  $\text{C}_3\text{H}_6$

C.  $\text{C}_4\text{H}_8$

D.  $\text{C}_5\text{H}_{10}$

40. Ethanol burns in air according to the following equation  
 $C_2H_5OH(l) + 3O_2(g) \longrightarrow 2CO_2(g) + 3H_2O(l); \Delta H = -1367 \text{ kJ mol}^{-1}$

The heat produced by burning 3 g of ethanol is ( $H=1$ ,  $C=12$ ,  $O=16$ )

- A.  $\left(\frac{1367 \times 46}{3}\right) \text{ kJ}$
- B.  $\left(\frac{3}{1367 \times 46}\right) \text{ kJ}$
- C.  $\left(\frac{1367 \times 3}{46}\right) \text{ kJ}$
- D.  $\left(\frac{1367}{3}\right) \text{ kJ}$

Each of the questions 41 to 45 consists of an assertion (statement) on the left hand side and a reason on the right hand side.

Select:

- A. If both the assertion and the reason are true statements and the reason is the correct explanation of the assertion.
- B. If both the assertion and the reason are true statements but the reason is not a correct explanation of the assertion.
- C. If the assertion is true but the reason is not a correct statement.
- D. If the assertion is not correct but the reason is a correct statement.

#### INSTRUCTION SUMMARISED

<b>Assertion</b>	<b>Reason</b>
A. True	True and is a correct explanation
B. True	True but is not a correct explanation
C. True	Incorrect
D. Incorrect	Correct

41. Dry carbon dioxide gas turns dry blue litmus paper to red	<i>Because</i>	Carbon dioxide gas is acidic	<input type="checkbox"/>
42. A reaction between iron and copper(ii) sulphate produces a green solution and brown solid	<i>Because</i>	Iron metal is more reactive than copper	<input type="checkbox"/>
43. Concentrated sulphuric acid is used to dry gases	<i>Because</i>	it is a non-volatile acid	<input type="checkbox"/>
44. Electrolysis of dilute sulphuric acid between carbon electrodes produces oxygen gas at the anode	<i>Because</i>	hydroxide ion is lower than sulphate ion in electrochemical series	<input type="checkbox"/>
45. A solution of ammonium chloride has a pH of less than 7	<i>Because</i>	Ammonium chloride is formed between a weak alkali and a strong acid	<input type="checkbox"/>

In each of the questions 46 to 50, one or more of the alternative given may be correct, read each question carefully and then indicate the correct answer according to the following;

- A. If 1, 2 and 3 only are correct
- B. If 1 and 3 only are correct
- C. If 2 and 4 only are correct
- D. If 4 only is correct

**Instructions summarized**

A	B	C	D
1, 2, 3 are correct	1, 3 are correct	2, 4 are correct	4 only is correct

46. Which of the following oxide(s) can be reduced by carbon monoxide?

- 1. Magnesium oxide
- 2. Copper(ii) oxide
- 3. Aluminium oxide
- 4. Lead(ii) oxide



47. Which of the following sulphate(s) is soluble in water?

- 1. Calcium sulphate
- 2. Barium sulphate
- 3. Lead(ii) sulphate
- 4. Magnesium sulphate

48. Which of the following acids partially ionizes in water

- 1. Ethanoic acid
- 2. Sulphuric acid
- 3. Carbonic acid
- 4. Hydrochloric acid

49. Which of the following solutions will form a precipitate with silver nitrate solution?

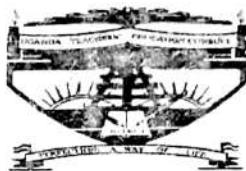
- 1. Sodium sulphate
- 2. Sodium nitrate
- 3. Sodium chloride
- 4. Sodium carbonate

50. Which of the following compounds is used in preparation of oxygen gas

- 1.  $\text{H}_2\text{O}_2$
- 2.  $\text{KClO}_3$
- 3.  $\text{Na}_2\text{O}_2$
- 4.  $\text{Na}_2\text{O}$

**END**

**241/1**  
**HISTORY**  
**OF**  
**EAST AFRICA**  
**Paper 1**  
**July/Aug.2023**  
**2 hours**



**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)**

**Uganda Certificate of Education**

**HISTORY OF EAST AFRICA**

**(c. 1000 to Independence)**

**Paper 1**

**2 hours**

**INSTRUCTIONS TO CANDIDATES:**

*Answer **four** questions only.*

*All questions carry equal marks.*

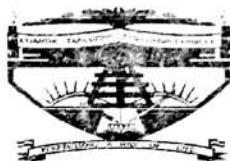
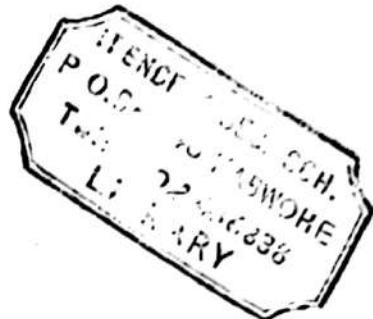
*Any additional question(s) attempted will **not** be marked*

1. (a) Explain the factors that led to the development of Swahili Culture along the East African Coast between AD 1000 and 1500? (13 marks)  
(b) How were the coastal peoples affected by this culture during the period? (12 marks)
2. (a) Describe the migration and settlement of the Interlacustrine Bantu into East Africa between AD 1000 and 1500. (13 marks)  
(b) What were the results of their settlement in East Africa? (12 marks)
3. (a) Explain the significance of the Ba - Chwezi to the history of Bunyoro - Kitara region. (13 marks)  
(b) What challenges did the Chwezi face by the end of the sixteenth Century? (12 marks)
4. (a) Why were the early Europeans interested in the East African Coast between AD 1498 and 1700? (13 marks)  
(b) How did they settle at the East African Coast during the time? (12 marks)
5. (a) Describe the course of the Ngoni movement into Southern Tanganyika between 1820 and 1860. (13 marks)  
(b) What were the results of their settlement in East Africa? (12 marks)
6. (a) Why was it difficult for the British to end Slave trade in East Africa by mid 19<sup>th</sup> Century? (13 marks)  
(b) How did the abolition of slave trade affect the peoples of East Africa? (12 marks)
7. (a) Describe the European Christian Missionary activities in East Africa between 1875 and 1910. (13 marks)  
(b) How did their activities lead to the colonization of East Africa during that time? (12 marks)
8. (a) Explain the causes of the racial conflicts in Kenya between 1907 and 1923? (13 marks)  
(b) How were the racial conflicts resolved in 1923? (12 marks)
9. (a) What obstacles did the Uganda Railway builders face? (13 marks)  
(b) How was the construction of this railway significant to the development of East Africa? (12 marks)
10. (a) How was the 1952 – 1960 Conflicts between the Kikuyu and the British organized? (13 marks)  
(b) In what ways were these conflicts significant to the history of Kenya? (12 marks)

END

241/4

**HISTORY  
OF  
SOUTH AFRICA**  
**Paper 4**  
**July/Aug. 2023**  
**2 hours**



**UGANDA TEACHERS' EDUCATION CONSULT (UTECH)**

**Uganda Certificate of Education**

**HISTORY OF SOUTH AFRICA**

**(C.1000 to Independence)**

**Paper 4**

**2 hours**

**INSTRUCTIONS TO CANDIDATES:**

*Answer four questions*

*All questions carry equal marks*

*Additional question(s) attempted will not be marked*

1. (a) How did the Bantu speaking Sotho – Tswana settle into South Africa? (13 marks)
- (b) What were the results of their settlement on the Hottentots? (12 marks)
2. (a) Why was the Dutch Government established at the Cape between 1803 and 1806? (13 marks)
- (b) Explain the achievements of the above Dutch government for the Cape during the same period? (12 marks)
3. (a) Why did Chief Mzilikazi rebel against the Boer trekkers in 1836? (13 marks)
- (b) What were the results of this rebellion? (12 marks)
4. (a) Describe the origins and establishment of Basuto (Sotho) Kingdom. (12 marks)
- (b) Explain the significance of King Mosheshe to the Basuto History between 1820 and 1870. (13 marks)
5. (a) Explain the main characteristics of the 1867 - 1900 developments in South Africa. (13 marks)
- (b) How were the Blacks and the Whites affected by the developments? (12 marks)
6. (a) Describe the course of the organization of the 1899 – 1902 Anglo – Boer War in South Africa. (12 marks)
- (b) What were the results of this war? (13 marks)
7. (a) Explain the reasons for the 1910 South African Act of Union. (12 marks)
- (b) How were the Africans and the Europeans affected by the Union? (13 marks)
8. Explain the contribution of the following Independence Movements towards the liberation of their countries:
  - a) South West Africa Peoples' Organization (SWAPO) and. (12 marks)
  - b) African National Congress (ANC). (13 marks)

**END**

845/1

## ENTREPRENEURSHIP

Paper 1

July/Aug. 2023

2 $\frac{1}{2}$  hours



## UGANDA TEACHERS' EDUCATION CONSULT (UTEC)

Uganda Certificate of Education

### ENTREPRENEURSHIP EDUCATION

Paper 1

**2hours 30 minutes**

### ● INSTRUCTIONS TO CANDIDATES

*Answer only four questions.*

*All questions carry equal marks.*

*Credit will be given for use of relevant diagrams and illustrations.*

*Additional question(s) answered will not be marked.*

1. Kasadha is operating Kamukamu enterprise, a large scale retail shop.
- Write a letter of inquiry to your supplier for the goods sold. **(07 marks)**
  - Explain three benefits of keeping records in business **(06 marks)**
  - Explain four factors for the choice of location for your business. **(08 marks)**
  - Prepare cash receipt for use in the business. **(04 marks)**

2. The following information relates to Aharoro Enterprises for the month of July 2022.

1/01/22	Started business with cash at hand shs100,000 and cash at bank shs 350,000.
5/01/22	Received a cheque from Nambisha shs. 150,000
11/01/22	cash purchases shs. 150,000
14/01/22	Goods sold by cash shs. 200,000
16/01/22	Bought stationery in cash shs 20,000
16/01/22	cashed a cheque shs. 100,000
19/01/22	cash sales paid directly to the bank shs. 50,000
22/01/22	Withdrew cash from the bank for business use shs. 800,000
22/01/22	Paid Mabbike by cheque shs. 90,000
23/01/22	Received a chequ shs. 200,000 from Wemayi
23/01/22	Cash Drawings shs. 40,000
25/01/22	Deposited cash to the bank shs. 60,000
27/01/22	Paid electricity by cheque shs. 100,000
29/01/22	With drew cash from the bank shs. 70,000 and used it to pay Buyooyo by cash shs. 50,000 and the balance for business use.
30/01/22	Took cash shs. 80,000 into the bank
30/01/22	With drew cash from the bank shs. for personal use shs 100,000

*You are required to;*

- Enter the transactions in a two column cash book **(09 marks)**
- Open up the necessary ledger accounts in the ledger book. **(08 marks)**
- Give six reasons why a bank may refer a cheque to drawer. **(08 marks)**

3. The following records were extracted from the books of Lukoda Ltd as at 31<sup>st</sup> December 2022

	shs
Machinery	700,000
Premises	1,200,000
Sales	1,600,000
Returns Inwards	150,000
Purchases	1,400,000
Salaries	175,000
Fittings	125,000
Discounts Received	22,500
Opening Stock	250,000
Returns Outwards	9,000
Insurance	19,000
Cash	12,000
Electricity	28,000
Transport	52,000
General Expenses	36,000
Closing Stock	300,000
Debtors	300,000
Creditors	215,000
Capital	1,575,000
Drawings	30,000
Bank Overdraft	93,000
Discount Allowed	37,500

**You are required to;**

- a) Extract Edward Ltd's Trial balance as at 31<sup>st</sup> December 2022 (11 marks)
- b) Prepare a Trading Profit and Loss Account for the year ending 31<sup>st</sup> December 2022. (11 marks)
- c) Determine the gross profit margin for Edward Ltd. (03 marks)
  
- 4. You intend to start operating a dairy processing plant on a small scale
  - a) Prepare a marketing plan for the project. (03 marks)
  - b) What possible benefits will your project offer to the community? (04 marks)
  - c) How will you reduce risks in your business? (04 marks)
  - d) Describe four methods you will use to ensure quality products. (08 marks)

5. The following balances were extracted from the books of KAMUKAMU Enterprise as at 31<sup>st</sup> December 2020.

Item	Shs
Sales	128,000
Advertising	8,000
Returns inwards ✓	6,000
Premises	122,000
Carriage inwards ✓	10,000
Rent	4,000
Cash in hand	14,000
Stock (1. 1.2020)	28,000
Debtors	18,000
Creditors	31,000
Purchases	90,000
Cash at bank	27,000
Machinery	75,000
Bank loan	60,000
Returns outwards	5,000
Drawings	10,000
Discount allowed	5,000
Discount received	<del>5000</del>
Commission received	20,000
Capital	190,000
Carriage outwards	8,000
Wages and salaries	<del>5000</del>
Stock (31 <sup>st</sup> / 12 / 2020)	48,000

**Required to:**

- (a) (i) Extract a trial balance as at that date.
- (ii) Prepare a trading account.
- (iii) Prepare profit and loss A/C
- (b) Compute
  - (i) Average stock.
  - (ii) Working capital ratio.
  - (iii) Capital employed.

(06 marks)  
(06 marks)  
(02 marks)

(02 marks)  
(03 marks)  
(02 marks)

**END**

**845/2**  
**ENTREPRENUERSHIP**  
**EDUCATION**  
Paper 2  
**Jul/Aug. 2023**  
2½ hours



**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)**

**Uganda Certificate of Education**  
**ENTREPRENUERSHIP EDUCATION**  
**Paper 2**

2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES:**

*Answer only FOUR questions*

*Section A is compulsory. Answers to this section should be precise*

*Answer any three questions from section B.*

*All questions in section B carry equal marks.*

*Start each questions on a fresh page*

## SECTION A

1. (a) (i) What is meant by risk taking? (1mark)  
(ii) Give any three levels of risk taking. (3marks)
- (b) (i) Distinguish between an intrapreneur and entrepreneur. (2marks)  
(ii) Mention any two features of an intrapreneur. (2marks)
- (c) (i) Define self-employment. (1mark)  
(ii) Outline any three benefits of self-employment. (3marks)
- (d) (i) What is meant by saving? (1mark)  
(ii) State any three determinants of one's level of income. (3marks)
- (e) Give four indicators of a good business opportunity. (4marks)
- (f) (i) Distinguish between a micro business and a small business. (2marks)  
(ii) Mention any two features of medium sized businesses. (2marks)
- (g) (i) Define a marketing plan. (1mark)  
(ii) State any three components of a marketing plan. (3marks)
- (h) (i) Distinguish between a bond and a share. (2marks)  
(ii) Give any two types of a bond. (2marks)
- (i) Outline any four principles of corporate governance. (4marks)
- (j) Outline any four general procedures for balancing accounts. (4marks)

## SECTION B

2. (a) Explain the principles of business ethics. (10marks)  
(b) What is the importance of practicing business ethics to an entrepreneur? (10marks)
3. (a) Managers have specific functions to play in an enterprise. Explain them. (10marks)
- (b) Explain the major types of personnel in a small enterprise. (10marks)
4. (a) Why do most businesses prefer cash to credit transactions? (10marks)  
(b) Describe the techniques of managing credit sales. (10marks)
5. (a) How do central banks control money supply in the public? (10marks)  
(b) State the major transactions carried out by commercial banks in your country. (10marks)
6. (a) State any five examples of indirect taxes in Uganda. (10marks)  
(b) Account for low tax revenue collection in Uganda. (10marks)

**END**

612/1  
**STUDIO**  
**TECHNOLOGY**  
July/Aug. 2023  
**Paper 1**  
2 hours



**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)**

**Uganda Certificate of Education**

**STUDIO TECHNOLOGY**

**Paper 1**

2 hours

**INSTRUCTIONS TO CANDIDATES:**

*Answer **ALL** questions*

*Drawings and diagrams should be used where necessary and credit will be given for their explanatory value.*

1. (a) Explain what you understand by the meaning of sculpture. (02 marks)  
(b) Explain five(5) different tools that are used to create a carved wood sculpture. (05 marks)
2. How are the following utilized to finish a weave:
  - (i) A loom
  - (ii) Shuttle
  - (iii) Beater
  - (iv) Yarn(08 marks)
3. (a) Give three(3) sources of drawing. (03 marks)  
(b) What are the relevancies of shading or toning on a drawing or painting? (05 marks)
4. (a) What is block printing? (02 marks)  
(b) Outline some steps taken to effectively finish a block printing repeated motif on to a fabric. (07 marks)
5. Elements of art may be explained as the building blocks that form an artwork. Use illustrations to explain this process of building any simple drawing. (06 marks)
6. (a) What is an illustration in graphic art? (02 marks)  
(b) Give some five importances of illustration on graphic communication. (05 marks)
7. (a) What is blending? (02 marks)  
(b) Explain how blending aids at;
  - (i) creating form
  - (ii) suggesting changes in distance or perspective(04 marks)
8. (a) Explain what you understand by a pattern. (02 marks)  
(b) Show briefly five(5) different ways how the knowledge of patterns is used to decorate. (05 marks)
9. (a) Explain the process of press mould to make artworks. (02 marks)  
(b) Outline some products created by the press mould technique to serve given purposes. (03 marks)
10. (a) What is leather work? (02 marks)  
(b) Briefly explain five(5) techniques of decorating leather works. (05 marks)

**END**

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612/4-

**IPS ART**

Imaginative Composition in  
Colour

**July /Aug.2023**

5 hours



**UGANDA TEACHERS' EDUCATION CONSULT (UTEC)**

**Uganda Certificate of Education**

**IPS ART AND CRAFTS**

**ORIGINAL IMAGINATIVE COMPOSITION IN COLOUR**

**Paper 4**

5 hours

*Planning Session: 2 hours (morning)*

*Practical Examinations: 3 hours (Afternoon)*

**INSTRUCTIONS TO CANDIDATES:**

*This paper is to be given to the candidates in the morning of the day for the examination to allow for sketching (9:00 am – 11:00 am). The sketches done between 9:00 am – 11:00 am should accompany the final work which will take 3 hours in the afternoon. At the end of the planning session, candidates must not take away with them any of the tests or their plans / sketches and they must not bring in any other notes / sketches to the practical session.*

*The Art teacher should supply the candidates with cards measuring 5 cm wide by 12 cm 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, random and personal numbers, in that order, must be written clearly. This area must not be painted.*

**NB:** Candidates must be instructed that **ruling** by any means whatsoever is **forbidden** except when marking off space for the name, random and personal numbers.

*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 are the main objectives of this paper.*

**Note that:**

- (a) You must not, on any account, reproduce other people's work.
- (b) Except for the number of the question, your, **name, random and personal numbers** you must **not write on the front of your picture, but you may write at the back of the paper surface.**
- (c) Your picture should fill or approximately fill your sheet of paper.

## **TASKS**

1. The walk was very long for sure!
2. That was quite dangerous!
3. It was really over loaded.
4. He was finally arrested by the people and taken to police.
5. The happy and joyful supporters.
6. Leading the animals.
7. The teacher on duty.
8. It was an exciting traditional dance show.

**END**

223/1

CHRISTIAN  
RELIGIOUS  
EDUCATION

July/ Aug. 2023

2½ hours



UGANDA TEACHERS' EDUCATION CONSULT (UTEC)

**Uganda Certificate of Education**

CHRISTIAN LIVING TODAY

**Paper 1**

2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES:**

*Answer five questions taking one question from each of sections A,B, C, D and E.*

*All questions carry equal marks*

## **SECTION A** **MAN IN A CHANGING SOCIETY**

1. (a) Explain changes that you have experienced since you joined senior secondary life. (10 marks)
- (b) What changes does Jesus Christ expect of his followers? (10 marks)
2. (a) In what ways is work abused in Uganda today? (10 marks)
- (b) What Biblical teachings can help one to be a good worker? (10 marks)
3. (a) What leisure activities did St. Augustine condemn? (10 marks)
- (b) Mention leisure activities which St. Augustine would condemn if he was here. (10 marks)

## **SECTION B** **ORDER AND FREEDOM IN SOCIETY**

4. (a) Explain the forms of injustices that were practiced in the African traditional society. (10 marks)
- (b) Give the Christian teachings on justice. (10 marks)
5. (a) In what ways did Jesus serve his community? (10 marks)
- (b) What lessons can modern leaders learn from Jesus' example of service? (10 marks)
6. (a) Explain the ways by which a Christian can show loyalty to God today. (10 marks)
- (b) Show the ways by which Jesus expressed loyalty to God in the New Testament. (10 marks)

## **SECTION C** **LIFE**

7. (a) What was the Christian understanding of happiness during the middle ages? (10 marks)
- (b) Explain the sources of happiness according to the New Testament. (10 marks)
8. (a) Explain the ways in which Christians prepare themselves for the life after here. (10 marks)
- (b) What is the Old Testament understanding of life after death? (10 marks)

9. (a) What did it mean to have a successful life in the Old Testament? (10 marks)  
(b) Explain the Christian meaning of success. (10 marks)

**SECTION D**  
**MAN AND WOMAN**

10. ✓ (a) What problems do families face in Uganda today? (10 marks)  
(b) How can the Bible help to solve these problems? (10 marks)
11. (a) Explain how sex roles have changed today? (10 marks)  
(b) Drawing examples from the Bible, give reasons to support the Women Liberation Movement. (10 marks)
12. (a) Outline the problems young people intending to marry face in their courtship today. (10marks)  
(b) How can the Church help them to solve those problems? (10 marks)

**SECTION E**  
**MAN'S RESPONSE TO GOD THROUGH FAITH AND LOVE**

13. (a) Explain the ways by which people are searching for God today. (10 marks)  
(b) How did God reveal himself to people in the Old Testament? (10 marks)
14. ✓ (a) Why are many people evading God today? (10 marks)  
(b) What is the Church doing to bring people back to God? (10 marks)
15. (a) Identify ways by which the early Christians showed concern for the community? (10 marks)  
(b) Show the ways in which God was involved in the lives of the Israelites in the Old Testament. (10 marks)

**END**

Name.....Personal No.....

Signature.....

840/1  
**COMPUTER**  
**STUDIES**  
**Paper 1**  
**Jul / Aug. 2023**  
2  $\frac{1}{2}$  hours



**UGANDA TEACHERS' EDUCATION CONSULT (UTECH)**

**Uganda Certificate of Education**

**COMPUTER STUDIES**

**Paper 1**

2 hours 30 minutes

**INSTRUCTIONS TO CANDIDATES**

- Write your name, stream and Personal No. in the spaces above.
- This paper consists of **three Sections A, B and C**.
- Section A contains **20 compulsory objective type questions**.
- The correct alternative **A, B, C or D** must be written in the box provided on the right hand side of each question
- Section B contains **six compulsory structured questions**
- Answers to Section B must be written in the spaces provided in the question paper.
- Section C contains **three practical theory questions**. Answer only **one**. Answers to Section C must be written in the answer booklet(s) provided.
- Additional question(s) answered will **not** be marked

**For Examination Use Only**

MCQ	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	TOTAL

## **SECTION A (20 Marks)**

1. The GUI that enables one to choose more than one option is.....  
A. Icons  
B. Radio Button  
C. Check box  
D. Linked lists
2. There are \_\_\_\_\_ steps involved in the machine cycle process of the CPU.  
A. 5  
B. 4  
C. 3  
D. 6
3. A Buzzer, speaker, monitor can best be categorized as .....  
A. Output devices  
B. Softcopy output devices  
C. Hardcopy output devices  
D. Input devices
4. Identify an incorrect sum function that could be used to add values in the range B2:D2?  
A. =SUM (B2:D2)  
B. =SUM(B2:C2:D2)  
C. =SUM(\$B\$2:\$C\$2:\$D\$2)  
D. =SUM(B2,2C,D2)
5. A DVD-R, CD-R, CD-RW fall in the \_\_\_\_\_ category of storage hardware.  
A. Online  
B. Magnetic  
C. Solid-state  
D. Optical
6. The main disadvantage of using First generation of computers was  
A. Limited Artificial intelligence  
B. Use of High level Languages  
C. Use of Transistors  
D. Slow operation

7. A voltage, current, or physical quantity that continuously and infinitely varies in accordance with some time-varying parameter is best represented by.....

- A. Digital computers
- B. Hybrid computers
- C. Analog computers
- D. Super computers

8. Most cabled keyboards interface with a computer through .....ports

- A. USB or VGA
- B. USB or HDMI
- C. PS2 or USB
- D. VGA or PS2

9. The \_\_\_\_\_ helps protect computers from sudden spikes in power, which can occur when your electrical system has been overloaded in the computer laboratory

- A. UPS
- B. Surge suppressor
- C. voltage stabilizer
- D. Power backup

10. The general name given to software that is designed to meet needs of the general public is called

- A. Middle ware
- B. Off shelf software
- C. System software
- D. Customized software

11. A mouse pointer in word processing that will allow you adjust the size of a shape is

- A. Two sided arrow
- B. I-beam
- C. Arrow
- D. Four sided arrow

12. A student designed a five slide presentation and wanted the slides to keep running while advertising products in a kiosk. Which feature will he/she activate?

- A. Loop effect
- B. Hyper link effect
- C. Transition effect
- D. Slide show effect

13. One kind of configuration settings that are stored on the CMOS chip is.....

- A. User files
- B. Hardware parts
- C. Current date and time
- D. Application programs

14. Which of the following devices is added on a network to amplify and resend deteriorating signals suffering from attenuation is?

- A. Repeater
- B. Network interface card
- C. Modem
- D. Router

15. The most commonly experienced security threats that drops as an E-mail communication message is

- A. Attachment/forwards without consent
- B. Spam
- C. Viruses
- D. Hackers

16. The location of a resource on the internet is given by its?

- A. Protocol
- B. URL
- C. E-mail address
- D. ICQ

17. The most suitable data type in database that can store phone contacts of people like 0771999999, 0775123123, 0758111222 is

- A. Date/Time
- B. Short text
- C. Number
- D. Currency

18. Which type of topology is best suited for large businesses which must carefully control and coordinate the operation of distributed branch outlets?

- A. Ring
- B. Local area
- C. Hierarchical
- D. Extended Star

19. 19. An example of Intellectual property would include the following except?

- A. Patents.
- B. Domain names
- C. Industrial design for example Logo
- D. Computer Hardware developed by Microsoft

20. The following are symptoms of RSI except.....

- A. Burning, aching or shooting pain.
- B. Tremors, clumsiness and numbness
- C. Unemployment
- D. Fatigue or lack of strength

### SECTION B (60 Marks)

21. (a) Identify any two examples of modifier type keys on a typical modern Keyboard  
*(02 Marks)*

.....  
.....  
(b) Use the terms below to complete the statements (i)-(iv) *(04 Marks)*

- |                     |                                   |
|---------------------|-----------------------------------|
| • Analytical engine | • ENIAC                           |
| • Punched cards     | • Peripherals-mouse,<br>Keyboards |
| • Vacuum tubes      | • Barcode Reader                  |

(i) A method of data capture applied in supermarkets on sale of goods during

.....  
(ii) The device used by third generation computers;

.....  
(iii) Best example with in the first generation computers;

.....  
(iv) The development in the computer history by Charles Babbage;

(c) Suggest two ways of safeguarding each of the following in a computer laboratory.

(i) Computer files *(02 Marks)*

(ii) Computer hardware *(02 Marks)*

.....

.....

.....

.....

22. (a) (i) With examples, distinguish between optical and magnetic storage media *(02 Marks)*

.....

.....

.....

.....

(ii) Give two examples of online storage facilities. *(02 Marks)*

.....

.....

.....

.....

(b) Explain the function each of the following computer components.

(i) Device port *(02 Marks)*

.....

.....

.....

.....

(ii) RAM *(02 Marks)*

.....

.....

.....

.....

(iii) CMOS battery *(02 Marks)*

.....

.....

.....

.....

23. (a) The data below represents an extract from a spreadsheet containing data about buyers from one shop. Use it to answer the questions (i).to iii).

	A	B	C	D
1	Name	Quantity	Unit price	Amount
2	Wangi Don	20	100,000	2,000,000
3	Memberibe	1	50,000	50,000
4	Rose Calis	10	60,000	600,000
5	Silverton Bass	10	45,000	450,000

i. Which kind of data is entered in column A *(01 mark)*

.....

- ii. What is the aim of entering the formula = COUNTA (A2:A5)? In this spreadsheet? **(01 mark)**

- .....
- iii. If the shopkeeper decides that for those who bought items above 1,000,000 above are given “**Discount**”, and below 1,000,000 “**No Discount**”, write a formula using IF function for this information to be reflected in the spreadsheet.

**(01 mark)**

- iv. Write the steps you would take to include the Names and unit prices in a chart **(03 marks)**
- .....
- .....

- (b) Outline **two** advantages of an electronic database over manual methods.

**(04 Marks)**

(i) .....

(ii) .....

24. (a) (i) What is data communication? **(02 Marks)**

- (ii) List **three** types of wired data communication media. **(03 Marks)**

- (b) Explain the concept **client- server** computer networks. **(02 Marks)**

- (c) Outline **three** considerations that you would follow when setting up an office computer Network. **(03 Marks)**

25. (a) Give two circumstances under which the following commands can be put into use:

(i) **CUT** (02 Marks)

.....  
.....

(ii) **SAVE AS**

.....  
.....

(b) Name any **two** Microsoft word document referencing features. (02 Marks)

.....  
.....

(c) (i) Give **two** practical application of presentation software. (02 Marks)

.....  
.....

(ii) Explain the use following Database management software tools:

• Validation rule (02 marks)

.....  
.....

• Input mask (02 marks)

.....  
.....

26. (a) (i) Give two functions of any antivirus software installed on a computer. (02 Marks)

.....  
.....

(ii) Distinguish between Graphical user interface and command line interface. (02 Marks)

.....  
.....

(b) Write in full.

(i) HTML

(01 Mark)

.....

.....

(ii) COBOL

(01 Mark)

.....

.....

(c) Outline any two advantages of using High level languages over low level languages.

(02 Marks)

.....

.....

### SECTION C

27. As a computer studies student, you have been provided with the following computer malfunctions. Give two measures you would take to solve/troubleshoot each problem to have a properly working computer.

(i) Your computer does not start (04 marks)

(ii) A computer program is running slowly (04 marks)

(iii) A paper Jam in the printer (04 marks)

(iv) The sound is not playing out (04 marks)

(v) Display of blue screen of death (04 marks)

28. Prepare a check list of five (05) computer laboratory rules and regulations in part (a) and (b) that would help protect.

a) Computer users (10 marks)

b) Computer Hardware and software (10 marks)

29. Discuss the advantages and disadvantages of any two Social media used in Uganda today. (20 marks)

END

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**LITERATURE IN  
ENGLISH**

Paper 1

**July / Aug. 2023**

2½ hours



**UGANDA TEACHERS' EDUCATION CONSULT**

**UGANDA CERTIFICATE OF EDUCATION**

**LITERATURE IN ENGLISH**

Paper 1

**2 Hours 30 Minutes**

**INSTRUCTIONS:**

*Answer FIVE Questions in all on FIVE books; Choosing TWO questions on TWO books from Section A and THREE Questions on THREE Books from Section B One of which must be on poetry selected from Questions 23 to 26.*

*In Section A, you must answer one question from Subsection (i) and one question from Subsection (ii).*

*You must cover a play and a novel.*

## SECTION A:

### Subsection (i):

Select one of the passages 1-4, read it carefully and answer the questions after it as concisely as possible.

#### Either 1. FRANCIS IMBUGA: *The Return of Mgofu:*

- Mhando:** (After looking at the pictures). Ah...good. It should satisfy the doubting Thomases. He's a dignified old man, isn't he?
- Scout 2:** Yes, he is. The authorities in Nderema have looked after him well.
- Mhando:** His eyes betray the tiredness of one who has spent most of his life staring. Staring at the brightness of the problems that humanity causes itself.
- Scout 1:** Your Excellency, we did not expect to find out what we eventually did. Mgofu Ngoda is revered in the whole of Nderema. He's not only a seer like the ones before him but also a healer as well. His shrine is always filled with people wishing to be treated of one ailment of another.
- Scout 2:** It is even said that when he calls rain, the rain comes,
- Mhando:** Mmmmh.... That's why it rains more there than here. What does he use, herbs or roots?
- Scout 2:** Words, your Excellency. Mgofu Ngoda uses words to heal the sick.
- Scout 1:** And that is not all. We also found out that his son is the personal assistant to Nderema's Prime Minister. He is also a qualified and well respected medical doctor.
- Mhando:** And his wife? Is Mgofu's wife alive?
- Scout 2:** He lost his wife four years ago.
- Mhando:** Children?
- Scout 2:** Only two, the personal assistant and a girl. The girl is at the University of Southampton, studying International Relations.

**Mhando:** University of Southampton? God,  
what a welcome coincidence!  
**Scout 2:** Welcome coincidence?  
**Mhando:** Yes. The University of Southampton  
is where my nephew studied for his  
Master's degree.  
**Mhando:** What's her name?

**Questions:**

- (a) What happens shortly before this passage? (04 marks)
- (b) What makes Mgofu Ngoda admirable in the whole of Nderema? (08 marks)
- (c) Why does Mhando say, "...good it should satisfy the doubting Thomases" (04 marks)
- (d) What events come shortly after this passage? (04 marks)

**Or 2.** **WILLIAM SHAKESPEARE: *The Merchant of Venice*:**

**Shylock**  
Shall I not have barely my principal?  
**Portia**  
Thou shalt have nothing but the forfeiture,  
To be so taken at thy peril, Jew.  
**Shylock**  
Why then, the devil give him good of it!  
I'll stay no longer question.  
**Portia**  
Tarry, Jew:  
The law hath yet another law on you.  
It is enacted in the laws of Venice,  
If it be prov'd against an alien  
That by direct or indirect attempts  
He seek the life of any citizen,  
The party 'gainst the which he doth contrive  
Shall seize one half his goods, the other half  
Comes to the privy coffer of the state,  
And the offender's life lies in the mercy  
Of the duke only, 'gainst all other voice.  
In which predicament I say thou stand'st;  
For it appears by manifest proceeding  
That indirectly, and directly too,  
Thou hast contriv'd against the very life  
Of the defendant, and thou hast incur'd  
The danger formerly by me rehears'd.  
Down, therefore, and beg mercy of the duke.

**Gratiano**

Beg thou mayst have leave to hang thyself –  
And yet, thy wealth being forfeit to the state,  
Thou hast not left the value of a cord;  
Therefore thou must be hang'd at the state's charge.

**Duke**

That thou shalt see the difference of our spirit'  
I pardon thee thy life before thou ask it.  
For half thy wealth, it is Antonio's;  
The other half comes to the general state,  
Which humbleness may drive unto a fine.

**Portia**

Ay, for the state, not for Antonio.

**Shylock**

Nay, take my life and all, pardon not that:  
You take my house when you do take the prop  
That doth sustain my house; you take my life  
When you do take means whereby I live.

**Portia**

What mercy can you render him, Antonio?

**Gratiano**

A halter gratis – nothing else, for God's sake.

**Antonio**

So please my lord the duke and all the court  
To quit the fine for one half of his goods,  
I am content, so he will let me have  
The other half in use to render it  
Upon his death unto the gentleman  
That lately stole his daughter.  
Two things provided more: that for this favour  
He presently become a Christian;  
The other, that he do record a gift,  
Here in the court, of all he dies possess'd  
Unto his son Lorenzo and his daughter.

**Questions:**

- a) Why is Shylock unhappy in this passage? (06 marks)
- b) Describe Portia's character as shown in the passage. (04 marks)
- c) What does Portia mean when she says '*'Thou shalt have nothing but the forfeiture, To be so taken at thy peril, Jew....'*'? (05 marks)
- d) Explain what happens shortly after this passage. (05 Marks)

Or. 3. JOHN STEINBECK: *The Pearl*:

Kino stood in the door, filling it, and hatred raged and flamed in back of his eyes, and fear too, for the hundreds of years of subjugation were cut deep in him.

"The baby is nearly well now," he said curtly. The doctor smiled, but his eyes in their little lymph-lined hammocks did not smile. He said: "Sometimes, my friend, the scorpion sting has a curious effect. There will be apparent improvement, and then without warning - pouf!" He pursed his lips and made a little explosion to show how quick it could be, and he shifted his small black doctor's bag about so that the light of the lamp fell upon it, for he knew that Kino's race love the tools of any craft and trust them.

"Sometimes," the doctor went on in a liquid tone, "sometimes there will be a withered leg or a blind eye or a crumpled back. Oh, I know the sting of the scorpion, my friend, and I can cure it."

Kino felt the rage and hatred melting toward fear. He did not know, and perhaps this doctor did. And he could not take the chance of putting his certain ignorance against this man's possible knowledge. He was trapped as his people were always trapped, and would be until, as he had said, they could be sure that the things in the books were really in the books. He could not take a chance - not with the life or with the straightness of Coyotito.

He stood aside and let the doctor and his man enter the brush hut. Juana stood up from the fire and backed away as he entered, and she covered the baby's face with the fringe of her shawl. And when the doctor went to her and held out his hand, she clutched the baby tight and looked at Kino where he stood with the fire shadows leaping on his face. Kino nodded, and only then did she let the doctor take the baby.

"Hold the light," the doctor said, and when the servant held the lantern high, the doctor looked for a moment at the wound on the baby's shoulder. He was thoughtful for a moment and then he rolled back the baby's eyelid and looked at the eyeball. He nodded his head while Coyotito struggled against him.

"It is as I thought," he said. "The poison has gone inwards and it will strike soon. Come look!" He held the eyelid down. "See - it is blue." And Kino, looking anxiously, saw that indeed it was a little blue. And he didn't know whether or not it was always a little blue. But the trap was set. He couldn't take the chance.

The doctor's eyes watered in their little hammocks. "I will give him something to try to turn the poison aside," he said. And he handed the baby to Kino. Then from his bag he took a little bottle of white powder and a capsule of gelatine. He filled the capsule with the powder and closed it, and then around the first capsule he fitted a second capsule and closed it. Then he worked very deftly. He took the baby and pinched its lower lip until it opened its mouth. His fat fingers placed the capsule far back on the baby's tongue, back of the point where he could spit it out, and then from the floor he picked up the little pitcher of pulque and gave Coyotito a drink, and it was done. He looked again at the baby's eyeball and he pursed his lips and seemed to think.

At last he handed the baby back to Juana, and he turned to Kino. "I think the poison will attack within the hour," he said. "The medicine may save the baby from hurt, but I will come back in an hour. Perhaps I am in time to save him." He took a deep breath and went out of the hut, and his servant followed him with the lantern.

**Questions:**

- a) What happens shortly before this passage? (06 Marks)
- b) What does the passage show about the character of:-
  - i) Kino
  - ii) The Doctor (04 Marks)
- c) Briefly explain any three themes revealed in the passage. (06 Marks)
- d) What are your feelings towards Kino in the passage? (04 Marks)

**Or 4. LAWRENCE DARMANI: *Grief Child*:**

Goma took the money. 'You mention tradition, my friend,' Goma said, 'and we mustn't undo tradition. It's for the sake of tradition that I'm accepting this...' But before she put the money away, Adu came out of his room. The two women looked up. Goma ignored him and began, 'Tradition of the fathers must be...'

'I have something to say,' Adu said as he walked towards the women. It was a bold step that he was taking. Adu knew that. He also knew that what he was about to do could result in repercussions he wasn't ready to bear. Yet he had to do it. The tradition of their fathers? Adu very clearly remembered what his father had said about his tradition of administering healing by herbs. 'About two years ago...' he began.

'Don't tell us stories,' Goma interrupted him.

'No, let's hear him,' Mansa said.

'My father taught me how to stop minor bleeding with cassava leaves. A few weeks after he taught me I used it on a friend who cut himself with a razor blade. The next day this boy bought sweets and gave me some which I ate. When I told my father about how I stopped the bleeding, I mentioned that the boy was so happy that he bought sweets for me.' Adu paused when Goma coughed slightly. But they all remained silent and so he continued. 'My father was so disgusted about the sweets that he made me to do something that I will never forget. He made me buy sweets the next day and return them to the boy. It was embarrassing to do this in front of my friends at school. They said I was mean and proud. But my father explained to me that the medicines he administered to people were absolutely free and in no circumstance should ever receive payment of any kind for them.'

The meaning of Adu's story was obvious. Ama and Anane gaped at him. It was the last thing they expected him to do.

'This is not a gift, my son,' Mansa said. 'This is just...'

'I told my father exactly that...'

'Let her finish,' Goma shouted at Adu. 'When an elder is talking, you don't interrupt. You see what I've been telling you. Mansa? You heard the way hem spoke - so proud, so disobedient...and when I try to discipline a child like that people think I'm a bad woman.' Adu noticed the anger in her voice.

'I'm sorry,' Adu apologized.

'Let him go on. Go on, Adu,' Mansa said.

'I told my father that the boy was not buying the sweets because of me. We bought sweets all the time anyway. But Father wouldn't hear that, just because the boy, when he was giving the sweets mentioned the help I gave him.'

'So what are you saying? Goma asked. 'Are you wiser than us here?

Adu didn't say anything.

'Go to your room at once,' Goma shouted.

'Anane's mother, I wash my hands of the curse that may come by the giving of that gift.' What Adu said sent sparks of fire through Goma. She got up in fury.

Suddenly Adu felt a sharp pain that went the full breadth of his back. 'You stupid orphan,, orphan, orphan; foolish boy, son of a goat. You - a fool like you - insulting your elders and cursing us? Fool, fool, fool.' the words and whips fell together. Anane and his mother were so shocked that for a moment they didn't know what to do.

#### Questions:

- a) Explain what leads to this passage? (06 Marks)
- b) Describe the character of Goma according to the passage. (04 Marks)
- c) How does Adu feel in the passage? (04 Marks)
- d) Briefly describe what happens immediately after the passage. (06 Marks)

#### Subsection (ii)

Attempt only one question from this Subsection. If your answer in subsection (i) was on

play, now select a novel; but if your answer in Subsection (i) was on a novel, now you **must** select a play.

#### FRANCIS IMBUGA: *The Return of Mgofu*:

**Either 5.** With close reference to the play *The Return of Mgofu*, explain the effects of violence on society. (20 Marks)

**Or 6.** Describe the message brought by Thori and Thorowa to the people of Mndika. (20 marks)

**WILLIAM SHAKESPEARE: *The Merchant of Venice*:**

- Either 7.** How is the theme of justice and the law shown in the play *The Merchant of Venice*? (20 marks)
- Or 8.** What lessons are there to learn from what finally happens to Shylock in the Play *The Merchant Of Venice*? (20 marks)

**JOHN STEINBECK: *The Pearl*:**

- Either 9.** How does the pearl of the world affect Kino and his family? (20 marks)
- Or 10.** With clear evidence from the novel *The Pearl*, describe the character of the doctor. (20 marks)

**LAWRENCE DARMANI: *Grief Child*:**

- Either 11.** Explain the causes of the conflict between Goma and Nimo in the novel *Grief Child*. (20 marks)
- Or 12.** Explain what you admire about the people of Susa. (20 marks)

**SECTION B:**

*Attempt three questions on three books from this section. One question must be on poetry. No more than one question should be attempted on any one text.*

**SYLVESTER ONZIVUA: *The Heart Soothers*:**

- Either 13.** What makes the play *The Heart Soothers* relevant to your society? (20 marks)
- Or. 14.** What are the heart soothers in the play, *The Heart Soothers*? (20 marks)

**OKIYA OMTATAH OKOITI: *Voice of the People*:**

- Either 15.** What shows that the people are dissatisfied with Boss' government in the Play *Voice of the People*? (20 marks)
- Or 16.** What is the role of The Mothers' front in the play *Voice of the People*? (20 marks)

**VICTOR BYAMAZIMA: *Shadows of Time*:**

- Either 17.** What is there in the novel *Shadows of Time* to prove the evil of moral decadence? (20 Marks)
- Or 18.** Describe the circumstances that lead to Flora's meeting with Tom and the consequences of their relationship. (20 marks)

**CHINUA ACHEBE: *Things Fall Apart*:**

- Either 19.** What exactly falls apart in the novel *Things Fall Apart*? (20 marks)
- Or 20.** Explain the weaknesses of the Ibo culture that contribute to falling apart of Umuofia. (20 marks)

**DANIEL MENGARA: *Mema*:**

- Either 21.** Discuss the theme of women emancipation in the novel *Mema*. (20 marks)
- Or 22.** Why is Mema an unusual person in the novel *Mema*? (20 marks)

**DAVID RUBADIRI: *Growing Up With Poetry*:**

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

**The guns of Gaborone**

(*Dithobolo Tsa Gaborone*)

June

Seetebosigo

the month of shivering

by the fireside

We were clustered like winter chickens

dried saliva had trickled to our ears

and our knees were pressed to our chins

The enemy fell on us

like locusts at sunset

Gaborone

Shook with amazed surprise

Man and home crumbled into nothingness

Ten and more died for no provocation

June,

wrapped us with a riddled blanket

You,  
Unfortunate,  
You are cursed,  
Terrorist  
Butcher  
Who refuses to acknowledge life  
has set like the sun  
Do you know that I have  
stronger – armed brothers, my defenders, your age mates  
who will ask you questions with the whisk of a whip?

I was here  
You were blind  
I listened  
You were dumb  
The country was bathed in blood  
Gatwe  
It is said  
that  
‘NtwaKglo key a molomo’  
The battle is informed  
by integrity  
But you lacked ears  
Tell me –  
Does your book have the story of David and Goliath?

You who died  
sleep in peace  
*Ban aba thari entsho*  
*alritas continua*  
*Lc elo*  
You have fought

*Grace Setlalekgosi (Botswana)*

**Questions:**

- (a) Who is the speaker in the poem? (01 mark)
- (b) What is the poem about? (05 marks)
- (c) What are the feelings of the speaker in the poem? (04 marks)
- (d) Explain the meaning of the following in the poem
- (i) .....like locusts at sunset... (02 marks)
- (ii) .....man and home crumbled into nothingness.... (02 marks)
- (iii) .....The country was bathed in blood.... (02 marks)
- (e) How relevant is the poem to your society? (04 marks)

**Or 24.** Select any poem you have read from *Growing Up With Poetry* by David Rubadiri on the theme of village life and use it to answer the following questions:

- a) State the name of the poet and the title of the poem. (03 marks)
- b) What is the subject matter of the poem? (06 marks)
- c) Why have you selected this particular poem? (06 marks)
- d) Give the relevance of the poem to your society today. (05 marks)

**A.D. AMATESHE: *An Anthology of East African Poetry*:**

**Either 25.** Read the poem below and answer the questions after it:

***The disabled***

*(Bangirana B-T. Kanzira Rwandambwe)*

Things you've done I'll say

For that way I'll say things

You've not done:

Your changes must never exceed

5 What you paid –

(Any way what did you?)

Beating up the disabled

Is not bravery –

You who received all –

10 You break the crutches of the cripple  
The support of the blind  
You cast over the hedge  
You deafen the blind  
You blind the deaf...

15 That way you've done  
Egocentricity service.

**Questions:**

- a) What is the subject matter of this poem? (06 marks)
- b) What is the attitude of the speaker about the person being addressed? (04 marks)
- c) Explain what makes this poem appealing to you. (06 marks)
- d) How does this poem make you feel and why? (04 marks)

**Or 26.** Select any poem by Everett Standa that you have read from *An Anthology of East African Poetry* edited by A.D Amateshe and use it to answer the following questions:

- a) State the title of the poem. (02 marks)
- b) What is the subject matter of the poem? (06 marks)
- c) Why have you selected this particular poem? (06 marks)
- d) Write a short poem about death, pain or suffering. (06 marks)

**END**

**336/1**  
**LUGHA YA**  
**KISWAHILI**  
**PAPER 1**  
**Julai/Agosti. 2023**  
**2½ HOURS**



**UGANDA TEACHERS' EDUCATION CONSULT (UTECH)**

Uganda Certificate of Education

**LUGHA YA KISWAHILI 336/1**

Karatasi ya kwanza

**MUDA; SAA MBILI NÀ NUSU**

**MAAGIZO;**

- **Jibu Maswali Manne.**
- Jibu maswali mawili kutoka kila sehemu, yaani **A** na **B**.
- Swali la kwanza lina maswali mawili. Chagua swali mojawapo, ama **(a)** au **(b)**. Yeyote atakayechagua sehemu ya **(b)** ni Lazima afanye insha mbili hapo.

## SEHEMU YA 'A';

1. (a) **Tunga insha ya maneno yasiyopungua maneno 350 wala kuzidi 450 juu ya mojawapo ya mada zifuatazo;**  
*(Alama 40)*
  - (i) Athari za Ugonjwa wa UVIKO19 kwa maendeleo ya nchi yetu.
  - (ii) Muungano wa jumuiya ya Afrika mashariki una manufaa zaidi kuliko madhara. Jadili.
  - (iii) Tunga insha inayoishia na, '.....*tangu siku hiyo nilianza kumpenda*'
  - (iv) Kikulacho ki nguoni mwako.  
(b) **Tunga insha mbili fupi kwa kuchagua juu ya mada zifuatazo:**  
*(Alama 20 kila insha)*
  - i) Fikiria kama wewe ni mmojawapo wa watahiniwa wa kidato cha nne mwaka huu. Na kwa sasa mnashughulikia maandalizi ya siku ya watahiniwa wote hapo shulen. Andaa ratiba itakayofuatwa siku hiyo (*Tumia maneno 50-80*)
  - ii) Jifikirie kuwa kiongozi wa wilaya yako na rais amekupigia simu kwamba anataka kuja kuitembelea wilaya yako. Andika hotuba utakayotoa siku hiyo mbele ya rais hadharani. (*Tumia maneno 130-180*)
  - iii) Weweni kiranja wa Michezo hapo shulen kwenu. Andika ripoti kuhusu michezo ambayo ilifanyika ndani ya muhula huu. (*Tumia maneno 100-120*)
  - iv) Rafiki yako alienda kufanya kazi nchi katika za Asia. Mwandikie barua, ukimwelezea shida au changamoto zilizosababishwa na Ugonjwa hatari wa UVIKO19 nchini mwako. (*Tumia maneno 80-100*)

## **2. Soma habari ifuatayo kisha ujibu maswali hapo chini yake.** *(alama 20)*

Ni jambo la maana sana kumjua kiundani huyo mtu umwitaye rafiki. Baadhi yetu tunao 'marafiki' bila ya kujuu mienendo na tabia zao. Kila mtu anafaa kujiuliza maswali muhimu; Rafiki yangu ni nani? Ni nini madhumuni ya urafiki wetu? Je, tabia za huyu ninayemwita rafiki zaendana na zangu? Mtu akishindwa kujiuliza maswali nyeti kama hayo, huenda akijiingiza kwenye mtego wa urafiki bandia unaoshabihiana na ule wa Mukasa na Eve. Marafiki zangu hao walikuwa wanafunzi katika shule moja ya sekondari mjini Kampala. Walipendana sana kama Romeo na Juliet.

Siku moja katika mida ya saa moja kamili usiku, Eve alitoroka nyumbani kwao akaenda na rafiki yake Mukasa kushereheke siku ya mwaka mpya. Walipanga kukutana kanisani. Mukasa alifurahi sana kumwona Eve siku hiyo maalumu. Mukasa alimwambia waingie kanisani kwanza ili waanze maomba na kumshukuru mwenyezi Mungu kwa baraka na maisha mazuri. Mukasa na Eve waliingia kanisani na kukalia viti vya nyuma. Walikaa bega kwa bega na wakati mwingine wakigeukiana na kutazamana uso kwa uso. Pasta alihubiri injili yake pale mbele lakini marafiki hawa walikuwa wanaongea mambo yao ya mapenzi. Pasta alitembea kanisa nzima na kuwaambia watu waombe sana Mungu na wasifanye madhambi. Isitoshe, Pasta aliwaambia watu kupiga magoti wakati wa kuomba lakini hawa wawili walikataa. Mukasa na Eve walicheka tu na kutoka nje ghafla. Waliacha maombi kanisani na kwenda diskoni.

Baada ya kutoroka maombi kanisani, Eve na Mukasa walienda diskoni kucheza muziki. Disko ilikuwa na mdundo mkubwa mjini Kyengera. Watu wengi waliingia diskonikwa ajili kushereheke tarehe mosi –tarehe maalumu ya kuukaribisha mwaka mpya. Mukasa na Eve walikula vyakula na kunywa vinywaji vya kila aina duniani. Walikula vyakula kama vile; Nyama choma, chipsi & kuku nakadhalika. Hapo mwanzoni, walikunywa vinywaji laini kama vile; sharubati au juisi ya matunda na soda. Baadaye, walibadilisha vinywajina kuanza kuagiza vile vya kulevyo. Walionja vinywaji mbalimbali; Mvinyo, wiski, biampaka Pombe ya kienyeji. Wakalewa sana. Saa Sita ilipofika, watu walishereheke kwa njia mbalimbali. Kwa mfano; fashifashi zilipigwa hewani, watu walipiga vigelegele, walipiga ngoma na kucheza. Wengine waliingia barabarani huku walichoma moto magurudumu kuukuu ya magari, balskeli na pikipiki.

Siku hiyo, Mukasa na Eve walilala kwenye shamba la mikalitusi usiku kucha. Walishiriki mapenzi bila ya kutumia kinga yoyote. Walikula raha mustarehe usiku wote wakati wamelewa chakari. Lakini raha ina karaha. Raha nyangi ina madhara. Wazazi wa Eve walimtafuta usiku wote bila kumwona. Walipiga ripoti kwa polisi na msako ulianza papo kwa hapo. Polisi waliwatia mbaroni wapendanao hawa wakati wa asubuhi wakiwa katika shamba la mikalitusi. Hata wakati huo nishai ya ulevi ilikuwa bado imewapanda vichwani. Askari polisi waliwakamata kwa makosa ya kutoroka nyumbani kwao usiku, kunywa pombe kupindukia na kufanya mapenzi wakiwa na umri mdogo. Walipigwa fimbo nyigi matakoni. Walilia sana huku wakiomba msamaha. Mukasa alitiwa pingu na kufungwa gerezani.

Baada ya mwezi mmoja, wazazi wa Eve walimpeleka hospitalini kupimwa. Eve alipatikana na mimba na matokeo yake, alifukuzwa shulenii moja kwa moja akarudi nyumbani huku akitiririkwa machozi. Wazazi wake nao walimfukuza nyumbani hapo

nyumbani pia. Eve alibaki mashakani asipajue pa kwenda. Mchumba wake alikuwa bado yu gerezani. Baada ya kuwaza na kuwazua, aliamua aende kwa rafiki yake Angella huko Nansana. Alipoanza kupata matibabu na huduma ya utunzaji wa ujauzito hapo hospitalini Wakiso, aliambiwa kuwa ana ugonjwa wa UKIMWI. Eve alijaribu kutoa mimba lakini wapi! Alikufa baada ya kupoteza damu nyingi.

**Maswali;**

- a) Pendekeza kichwa mwafaka kwa habari hii. (alama 02)
- b) Watu wa jamii ya mwandishi husherehekea vipi tarehe mosi ya mwaka mpya? (alama 04)
- c) Mukasa na Eva walisherehekea siku ya kuingia mwaka mpya kwa njia gani? (alama 04)
- d) Eleza matatizo yanayoweza kumkumba mwanafunzi akishiriki mapenzi. (alama 04)
- e) Mwandishi anamaanisha nini anaposema, ‘raha ina karaha’? Eleza. (alama 02)
- f) Hadithi hii inakufunza nini wewe kama Mwanafunzi? (alama 02)
- g) Eleza maana ya maneno haya kutokana na taarifa hii ya habari;
  - i. nishai ya ulevi
  - ii. kulewa chakari(alama 02)

**SEHEMU; B**

**3. Fupisha habari hii kwa maneno 80 ukizingatia ‘Aina za Magonjwa’.(Alama 20)**

Ugonjwa ni kitu kibaya sana katika maisha ya mtu. Kwa kweli, magonjwa au maradhi ni baadhi ya maadui na tishio kubwa kwa uhai wa binadamu, wanyama, ndege na hata mimea. Maisha yangalikuwa rahisi sana humu ulimwenguni kama tusingekuwa na magonjwa sugu. Maradhi huletwa na Virusi na viini vya aina kadhaa ambavyo huathiri viungo vya mwili wa binadamu, wanyama, ndege na hata mimea.

Maradhi yanayosababishwa na Virusi ni hatari sana. Hivi majuzi, Ulimwengu mzima uliathirika vibaya mno kwa sababu ya Ugonjwa hatari ulioletwa na Virusi vya Korona. Ugonjwa huu ni maarufu kwa jina la kifupi -UVIKO19. UVIKO19 ni ugonjwa wa kuambukiza unaosababishwa na virusi ya Korona. Virusi hivi ni vipyta duniani. Kirefu cha UVIKO ni **Ugonjwa wa Virusi vya Korona**. Na Virusi vya ugonjwa huu vilianzia nichini Uchina mjini Wuhan, mnamo mwezi Desemba mwaka 2019. Ugonjwa huu ni hatari sana. Ni ugonjwa ambao hauna chanjo na mpaka sasa wanasyansi hawajapata dawa yake. Ugonjwa huu huambukizwa kwa kuitia hewa kwenye mfumo wa upumuaji.

Aina nyingine ya maradhi ni yale yanayoletwa na maisha ya mtu binafsi. Mfano mzuri nimagonjwa ya zinaa. Kundi hili lina magonjwa kama vile; kisonono, kaswende na UKIMWI. UKIMWI ni kwa kifupi na kirefu chake ni **Ukosefu wa kinga mwilini**. Ni maradhi hatari sana ambao hauna tiba. Unaambukizwa kupitia njia chungu nzima kama; ngono zembe na kuchanganya damu. Virusi vyta UKIMWI hudhooishaa mwili na hatimaye vikasababisha kifo.

Maradhi ambayo huathiri binadamu ni yale ya kuambukiza. Mfano mzuri ni ugonjwa wa kipindupindu. Ugonjwa huu huletwa na kutapakaa kwa takataka na majitaka kwenye vyakula na maji anayotumia niwanadamu. Viini vyake huenezwa sana na mdudu aitwaye Nzi ambaye hupenda sana kula chakula kizuri na hata kichafu.

Maradhi mengine kama vile malaria yanaambukizwa na Mbu. Njia bora ya kuzuia magonjwa yanayoambukizwa na mbu pamoja na wadudu wengineo ni kuwaangamiza wadudu hao kwa kupiga dawa na kupunguza vichaka karibu na sehemu anakoishi binadamu.

Kunayo maradhi mengine yanayoletwa na ukosefu wa chakula bora chenye lishe mwafaka. Chakula bora ni kile kinachotoa chembe muhimu kwa damu ya mwili wa binadamu. Ugonjwa wa utapiamlo huwashika watoto wanaokosa vyakula vyta kujenga mwili. Mengine ni kama vile ugonjwa wa macho unaotokana na kutokula mboga zinazosaidia macho kuongeza nguvu.

Lipo kundi linginelo la maradhi ambayo hayaponi kamwe hata baada ya kupata matibabu ya muda mrefu. Aina hii huambatana na vidonda na mara nyingi hujulikana kwa jina la saratani pengine kensa au iri. Magonjwa haya nayo hutegemea na yanatokana na mazingira zaidi. Chanzo kinaweza kuwa chakula, vinywaji au kivutaji kama vile sigara.

Jambo muhimu kwa binadamu ni kuzuia maradhi. Njia bora ni kuhakikisha usafi wa mazingira. Kuishi katika mazingira yaliyochofuka ni njia yakini ya kupata maradhi. Kwa hivyo, usafi wa mazingira, nguo, mwili, vilaji na vinywaji na hata tabia, ni hakikisho thabiti la kuepukana na magonjwa katika jamii.

#### 4. Tafsiri habari ifuatayo kwa Kiswahili sanifu.

(alama 20)

It was around 15:45Hours when the taxi started on its journey. The Taxi had 14 passengers on board –as it is licensed by authorities. At first the taxi moved very slowly towards the Clock Tower junction. As usual there was traffic jam around the

place. It took about an hour for the traffic jam to clear. Mugisha wondered if he could reach Mbarara before Eight O'clock.

The Taxi driver stopped the engine suddenly. There was a bus right across the road. The taxi could move neither around the front of the bus nor around the back. There was a crowd of people around the bus. The taxi driver got out to see what had happened. The bus was empty except the driver, who was trying to start the bus over and again. However hard he tried, the bus could not start.

It was at this point in time when Mugisha turned back and saw his longtime friend Kakama and a courtesy dialogue followed;

**MUGISHA:** How has the school term been this time?

**KAKAMA:** Good, except that I have had to help my parents every morning before coming to school. Can you imagine working on the farm every morning! Milking cows, clean the kraal .....

**MUGISHA:** It's really good to help your parents. It helps you to work. What do you intend to become in future?

**KAKAMA:** Actually, I want to become a veterinary doctor. I want to be able to treat all animals in our community.

**MUGISHA:** You are lucky! Your parents are already training you for that job.

**KAKAMA:** Please! Let's meet tomorrow then I will show you the HELP YOUR PARENT story I have written.

**MUGISHA:** Alright, I'll come to your place. See you tomorrow.

## 5. MATUMIZI YA LUGHA – SARUFI

(alama 20)

a) Toa maana ya methali zifuatazo

i. Asiyejua maana haambiwi maana. (alama 01)

ii. Mgaagaa na upwa hali wali mkavu (alama 01)

b) Geza sentensi zifuatazi ziwe kwa wingi;

(i) Muwa umeliwa (alama 01)

(ii) Yeye amemaliza kazi (alama 01)

c) Andika sentensi zifuatazo katika usemi wa taarifa;

(i) "Mbona una haraka?", mwalimu alimwulize mkewe. (alama 01)

- (ii) "Nyinyi mnatoka wapi?", askari polisi aliwaauliza wageni. (alama 01)
- d) Tegua vitendawili vifuatavyo;  
(i) Binadamu huishi sandukuni. (alama 01)  
(ii) Nyumba yangu haikosi maji. (alama 01)
- e) Tumia kirejeshi "*omba...*" katika sentensi hizi;  
(i) Mtahiniwa aliyefanya vizuri kuliko wote ni Ethan (alama 01)  
(ii) Kalamu iliyopotea jana ni ya Atuhairwe. (alama 01)
- f) Andika sentensi zifuatazo kwa hali ya kukubali.  
(i) Nisipopata pesa, sitaenda Kampala. (alama 01)  
(ii) Asipopika, hutakula. (alama 01)
- g) Andika vinyume vyta maneno yaliyopigiwa mstari.  
(i) Alichelewa kufika shulenii asubuhi. (alama 01)  
(ii) Alipofufuka kila mtu alikasirika. (alama 01)
- h) Kanusha sentensi zifuatazo;  
(i) Kato hufanya mazoezi kila siku (alama 01)  
(ii) Basi hili huharibika mara kwa mara. (alama 01)
- i) Toa maana ya semi zifuatazo;  
(i) Kujikaza kisabuni. (alama 01)  
(ii) kuenda segemnege. (alama 01)
- j) Jaza pengo kwa kutumia mtindo mzuri wa 'sije'  
(i) Wapeni chakula..... wakasema hawakupata. (Alama 01)  
(ii) Usikojoe mahali hapo,..... pakanuka vibaya. (Alama 01)

----MWISHO---