

**THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**



**KIGOMA REGION
FORM FOUR MOCK EXAMINATION
BASIC MATHEMATICS**

041

TIME: 03:00 HOURS

15TH JULY, 2025 a.m

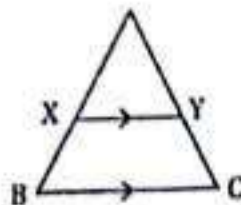
INSTRUCTIONS

1. This paper consists of sections A and section B with a total of 14 questions.
2. Attempt ALL questions in both sections.
3. Each question in section A carries 6 marks while each question in section B carries 10 marks.
4. Write your examination number on every page of your answer sheet(s) provided.
5. Mathematical tables and non-programmable calculator may be used.

SECTION A (60 MARKS)

1. (a) Use factors concept to identify a number that is not belonging to the given set of numbers and give mathematical reason for your choice: [2, 17, 37, 47, 87, 97]
(b) Three bells ring together at a certain starting point of time. Then, they ring at the intervals of 20, 25, and 50 minutes, respectively. After what interval of time will they ring together again?
2. (a) (i) Find the smaller of 2^{60} and 7^{20} without using a calculator or mathematical tables
(ii) Solve for x if $9^x - 4(9^{-x}) = -3$
(b) Solve $\log_5 x + \log_5(x - 3) = \log_5 10$

3. (a) A city has two daily newspapers, Seypalm and Palm journal. The following information was obtained from a survey of 100 residents of the city. 35 people subscribe to the Seypalm, 60 subscribe to the Palm journal, and 20 subscribe to both newspapers.
- Represent this information on the Venn Diagram
 - How many in the survey subscribe to the Seypalm but not to the Palm journal? people
 - How many do not subscribe to either paper?
- (b) A red and white die are rolled. What is the probability of the number on red die being less than 4 and the number on the white die being greater than 4?
4. (a) (i) Find the value of x and the equation of the later line so that the line containing $(4, 8)$ and $(2, -1)$ is perpendicular to the line containing $(x, 2)$ and $(-4, 4)$
- (b) If $\underline{u} = 3\underline{i} - \underline{j}$, $\underline{v} = -2\underline{i} + 3\underline{j}$, and $\underline{w} = -2\underline{i}$, find the value of $|\underline{u} + \underline{v} - \underline{w}|$
5. (a) The ratio of the sides of similar triangles is 1: 3. The area of the larger triangle is 351 cm^2 , find the area of the smaller triangle.
- (b) Given the following figure whereby $AX : BX = 3: 5$



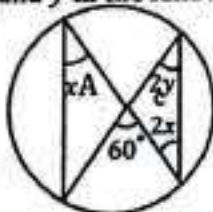
- Prove that $\Delta AXY \sim \Delta ABC$.
 - Calculate segment BC if segment XY is 18 cm.
6. (a) Mr Ogango from Kenya visited Tanzania. He had 5000 Kshs and wanted to change the money into USA Dollar. If 1 USA Dollar was equivalent to 2500 Tshs and 1 Kshs was equivalent to 20 Tshs. How much USA Dollar did he get?
- (b) (i) A gardener has found that the time (T) to cut grass on square field varies directly as the square of its length (L) and inversely as the number of men (M) doing that job. If 5 men cut grass on the field of side 50m in 3 hours. How many more men are required to cut a grass on field of side 100m in 5 hours? Assume that the men are working on the same place.
7. (a) The following transactions belong to ABC traders. Prepare cash account for ABC Traders and balance it.
- | | | |
|---------|-------------------------------------|-----------|
| October | 1: Started business worth | 500 000/= |
| | 2: Bought furniture for cash | 100 000/= |
| | 4: Purchased goods for cash | 20 000/= |
| | 5: Bought goods on credit from Juma | 40 000/= |
| | 6: paid rent | 5 000/= |
| | 7: Sold goods to Amina on credit | 60 000/= |
| | 8: Bought goods on credit from John | 56 000/= |

9: Paid electricity bill in cash	10 000/=
10: Sold goods to Frank on credit worth	80 000/=
11: Received cash from Amina	20 000/=
12: Withdraw cash for office use	70 000/=
15: Paid cash to Frank	30 000/=

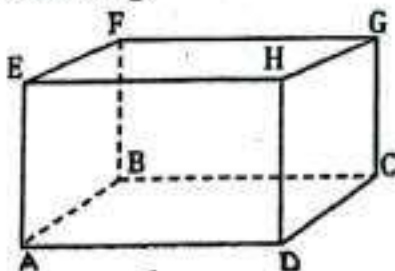
- (b) A suit is tagged 258 000 shillings. How much cash does one pay if given a discount of 7%?
8. (a) A business man invested 800 000 shillings in a bank account paying 6% interest compounded semi-annually. How long will it take for the sum of money to be 1 075 133 shillings?
- (b) A car whose original value was \$ 25600 decreases in value by \$ 90 per month. How long will it take before the car's value falls below \$ 15 000?
9. (a) If $\tan \theta = \frac{-3}{4}$ and θ is a reflex angle, find the value of (i) $\cos \theta$ (ii) $\sin 2\theta$
- (b) The angles of elevation from the top of the building of two points which are 210 m apart are 46° and 63° accordingly. Find the height of the building
10. (a) Factorize the following
- (i) $x^3y - 9xy^3$
- (ii) If $a * b = 3a^2 + 2b$, find the value of n if $(2 * 3) * n = 984$
- (b) Solve: $2 + \frac{5}{u} = \frac{3}{u^2}$

SECTION A (60 MARKS)

11. (a) A group 28 students did a biology test. The marks obtained out of 50 marks were Recorded as follows:
- | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 34 | 40 | 30 | 43 | 33 | 41 | 25 | 32 | 30 | 33 | 15 | 34 | 23 | 28 |
| 47 | 20 | 33 | 23 | 39 | 24 | 36 | 21 | 23 | 43 | 42 | 33 | 16 | 23 |
- (i) Prepare a frequency distribution table by using class marks: 17, 22, 27,...
- (ii) Calculate the mode score.
- (iii) Calculate the mean score.
- (b) Calculate x and y in the following mathematical challenge:



12. (a) A and B are two towns on latitude $40^\circ N$. If town A is on longitude $25^\circ E$ and town B is on Longitude $55^\circ E$, find the arc length AB. (Use $\pi \approx 3.142$ and Radius of the Earth is about 6370 km) (leave the answer to 2 decimal places)
- (b) The following diagram shows a cuboid with sides $AB = 5$ cm, $AD = 6$ cm, and $AE = 7$ cm. Find the following:



- (i) The diagonal AG (leave the answer to 2 decimal places)
- (ii) The angle diagonal AG makes with the base ABCD

13. (a) (i) Evaluate the following matrices operation with mathematical reason(s)

$$\begin{pmatrix} 5 & 0 & -2 \\ 1 & -3 & 8 \end{pmatrix} + \begin{pmatrix} -1 & 7 \\ 0 & 6 \\ -2 & 8 \end{pmatrix}$$

(ii) Calculate x, y, w and z so that

$$\begin{pmatrix} 4 & x \\ y & 0 \end{pmatrix} + \begin{pmatrix} w & -2 \\ -3 & z \end{pmatrix} = \begin{pmatrix} 2 & -3 \\ 0 & 5 \end{pmatrix}$$

(iii) Solve the following simultaneous equations by inverse matrix method

$$\begin{cases} 6x + 5y = 3 \\ 7x + 8y = 10 \end{cases}$$

(b) Find the image of point Q(5, 2) when reflected on the line $y = -x$

14. (a) Given the function $f(x) = \frac{(x^2+2x)}{x^2-x-6}$, find the values of x for which function $f(x)$ is undefined.

(b) A mining company operates two mines, each of which produces three grades of ore. The west summit mine can produce 2 tons of low-grade ore, 3 tons of medium-grade ore, and 1 ton of high-grade ore per hour of operation. The North Ridge mine can produce 2 tons of low-grade ore, 1 ton of medium-grade ore, and 2 tons of high-grade ore per hour of operation. To satisfy existing order, the company needs at least 100 tons of low-grade ore, 60 tons of medium-grade ore and 80 tons high-grade ore. The cost of operating each mine varies, depending on the conditions encountered while extracting the ore. If it costs 600 000 shillings per hour to operate the West Summit mine and 900 000 shillings per hour to operate the North Ridge mine:

- (i) How many hours should each mine be operated to supply the required amount of ore and minimize the cost of production?
- (ii) What is the minimum production cost?

THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT



KIGOMA REGION
FORM FOUR MOCK EXAMINATION JULY 2025

024

LITERATURE IN ENGLISH
(For Both School and Private Candidates)

Time: 3:00 Hours

TUESDAY, 22TH JULY, 2025

2:00 PM

INSTRUCTIONS

1. This paper consists of sections A, B and C with a total of 10 questions
2. Answer all questions in section A, B and two question from section C
3. All answers must be written clearly and neat

SECTION A (16Marks)

Answer all questions from this section

1. Choose the letter of the most correct answer and write its letter against question number in the answer sheet provided.
 - i. The term that best describes the feeling created in the reader by literary work or passage
 - a) Language
 - b) Atmosphere
 - c) Images
 - d) Persona
 - ii. If you read a play and became sad, what type of drama would you have read?

Page 1 of 4

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- a) Soliloquy
 - b) Melo drama
 - c) Comedy
 - d) Tragedy
- iii. The character that takes part in the story but is not the focus of attention is:
- a) Main character
 - b) Expository character
 - c) Minor character
 - d) Flat character
- iv. How is the plot of the novel "Concubine" by Elech Amadi arranged?
- a) Flashback style
 - b) Chronological
 - c) Flashback-forward
 - d) Fore-flashback
- v. A daughter of a pastor was found sleeping with her boyfriend in the room she was given by her own father. Suggest the literary device being described here.
- a) Situational dialogue
 - b) Imaginative language
 - c) Situational irony
 - d) prostitution
- vi. When Jesus was teaching his disciples, he used some illustration and examples so as to present moral or spiritual truth. In one word Jesus was teaching the disciples by using.
- a) Jokes
 - b) Proverb
 - c) Parable
 - d) Folk tale
- vii. _____ is the figure of speech that treats two different objects as one object
- a) Personification
 - b) Litotes
 - c) Metaphor
 - d) Simile
- viii. _____ is the writing or speech which is not meant to be taken literally
- a) Figurative language
 - b) Poetic language
 - c) Dictionary meaning
 - d) Euphemism
- ix. Subdivision of one act:
- a) Paradox
 - b) Theatre
 - c) Scene
 - d) Chapter
- x. Mr. Deodon wrote the history of the former headmaster Mr. Ndashwa. What do we call such history?
- a) Autobiography
 - b) Memoir
 - c) Bibliography
 - d) Reference
 - e) Biography

ANSWER:

i	ii	iii	iv	v	vi	vii	viii	ix	x

2. Match the item in LIST A with the response in LIST B to make a meaning by writing the letter of the correct response.

LIST A	LIST B
i. Poems which express lamentations for the deceased person	A. Dirge poem
ii. Poetry that gives a detailed description of place, person, etc	B. Lyric poem
iii. A long poem which deals with heroic theme of historical importance	C. Reflective poems
iv. Poetry that aims to give instructions or to cover moral lesson	D. Pastoral poems
v. Subjective poems that often brief, express the feelings and thoughts of a single peaking	E. Dramatic poems
vi. The poem that talks about rural life	F. Descriptive poems
	G. Epic poems
	H. Didactic poems
	I. Elegy

LIST A	i	ii	iii	iv	v
LIST B					

SECTION B (54 Marks) Answer all questions

- Briefly explain three (3) similarities and two differences between Simile and metaphor.
- Provide a literary term for each of the following statements.
 - A piece of writing or a dramatic work designed for acting on the stage is known as.....
 - A character or force in conflict with the main character: _____
 - A prose writing that talks about imaginary character or event: _____
 - _____ is the conversation between characters in the poem, novel and short story.
 - _____ are notes included in the drama that tell how the work is to be performed on the stage.
 - The act of practicing something which is to be performed before the audience: _____
 - A character in the story who is the focus of attention: _____
 - _____ is the repetition of sound at the end of sentence or words.
 - Is a brief work of fiction with limited number of characters and one incident _____
 - A list of characters given in the first page before the play starts: _____
- What are the possible challenges facing oral literature as a result of the advancement of science and technology?
- Contrast the following literary terms.

- i. Symbol and image
- ii. Poet and poetess
- iii. Antagonist and protagonist
- iv. Central character and minor character
- v. Poet and persona

7. Imagine you have gone home for the holiday and you meet your friend who is studying KLF at Mwanza Secondary School. You tell him/her that at your school there was a hot discussion on how to analyze poem. You as an expert of literature, educate him/her on things to put into consideration in making criticism of the poem (five points).

SECTION C (30 Marks)

Answer two questions from this section

LIST OF READINGS

Plays

- The lion and the Jewel - Wole Soyinka.
 The trial of Brother Jero - Wole Soyinka.
 The Dilemma of a Ghost - Amaa Ata Aidoo.
 The government Inspector - Nikolai Gogol .

Novels

- A Walk in the Night and other stories - Alex La Guma.
 Houseboy - Ferdinand Oyono.
 The Old Man and the Medal - Ferdinand Oyono.
 The Concubine - Elech Amadi.

Poetry

- Selected Poems - Tanzania Institute of Education.
 Growing up with Poetry - David Rubadiri.

8. With reference to two plays show how the playwrights have tried their level best to portray the agenda of African tradition and culture.
9. Using two Novels you have read, explain the message portrayed in those Novels. (Three (3) from each novel).
10. Like other forms of art, poems reflect social realities. They try to make us see a new light and by seeing we are inspired to change. Use two poems you have studied to verify the above statement

JAMUHURI YA MUUNGANO WA TANZANIA
OFISI YA RAIS
TAWALA ZA MIKOA NA SERIKALI ZA MITAA



MKOA WA KIGOMA
MTIHANI WA UTIMILIFU MKOA (MOCK) KIDATO CHA NNE
KISWAHILI

02

MUDA: SAA 3:00

15TH JULY, 2025 2:00 PM

MAELEKEZO

1. Karatasi hii ina sehemu A, B na C zenye jumla ya maswali kumi na moja (11).
2. Jibu maswali yote katika sehemu A na B, na maswali mawili (2) kutoka sehemu C ambapo swali la tisa (9) ni la lazima.
3. Sehemu Aina alama kumi na sita (6), sehemu B alama hamsini na nne (54) na sehemu C ina alama thelathini (30).
4. Zingatia maelekezo ya kila sehemu na ya kila swali.
5. Majibu yote yaandikwe kwa kalamu yenye wimo wa bluu au mweusi.
6. Vifaa vya mawasiliano na vitu visivyoruhusiwa havitakiwi katika chumba cha mtihani.
7. Andika namba yako ya mtihani katika kila ukurasa wa kijitabu chako cha kujibia.

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SEHEMU A (alama 16) Jibu maswali yote katika sehemu hii.

1. Katika kipengele(i) hadi (x) chagua herufi ya jibu sahihi kasha andika herufi ya jibu hilo kwenye kijitabu chako cha kujibia.

- i. Ni jambo gani linalodhihirishisha umbo la nje la kazi ya fasihi?
 - A. Muundo
 - B. Jina la kitabu
 - C. Fani
 - D. Mtindo
 - E. Maudhui
- ii. Anatoa ufafanuzi juu ya ubantu wa Kiswahili kwa kueleza wakazi wa mwambao waliojulikana kama "Wazanji" na watawala wao walijukana kama "Wakilimi".
 - A. ALi-Ildris
 - B. Al-Masudi
 - C. Marco Polo
 - D. Ibin Batuta
 - E. Fumo Liyongo
- iii. Maria alinunua vitabu vizuri Vizuri vyote viliwekwa kabatini. Dada alivipanga vizuri. Katika mfuatano wa sentensi hilo neno vizuri limetumika kama?
 - A. Kiwakilishi, kivumishi na kielezi
 - B. Kivumishi, kielezi na kiwakilishi
 - C. Kiwakilishi, kielezi na kivumishi
 - D. Kivumishi, kiwakilishi na kielezi
 - E. Kielezi, kivumishi na kiwakilishi
- iv. Ni sentensi ipi sahihi zaidi kuhusu viambishi?
 - A. Viambishi vyote ni mofimu
 - B. Viambishi vyote hutokoa baada ya mzizi
 - C. Viambishi vyote ni maneno yanayowekwa katika mzizi wa neno
 - D. Viambishi vyote ni mofimu tegemezi isipokuwa mzizi wa neno
 - E. Viambishi vyote vinakamilisha maana
- v. Ipi ni seti sahihi ya vipera vya semi?
 - A. Methali, mizungu na maghani
 - B. Soga, nyimbo na nahau
 - C. Misemo, mafumbo na vigano
 - D. Mafumbo, soga na maghani
 - E. Nahau, vitendawili na mizungu
- vi. Ni aina ya wahusika ambao hawabadiliki na wamepewa majina ambayo humfanya msomaji aelewe tabia na matendo yao.
 - A. Wahusika duara
 - B. Wahusika bapa sugu
 - C. Wahusika wakuu
 - D. Wahusika bapa vielelezo
 - E. Wahusika shinda
- vii. Mofimu KU iliyopigiwa mstari imebeba dhima gani katika kitenzi sikukukumbuka.
 - A. Ukanushi wakati uliopita
 - B. Ukanushi nafsi ya kwanza umoja
 - C. Kauli ya kutendeka
 - D. Kiambishi kirejeshi
 - E. Kudokeza mtendwa
- viii. mna watu wengi.
 - A. Alingia
 - B. Alimoingia

- C. Alikoingia
D. Alivyoingia
E. Alipoingia
- ix. Sababu ipi kati ya hizi zifuatazo haihusiki na uundaji wa maneno katika Lugha?
A. Kutofautisha uchumi na teknolojia katikajamii
B. Kukuza lugha katika jamii inayohusika
C. Kukidhi mahitaji ya mawasiliano
D. Kuibuka kwa mambo mapya katika jamii
E. Kuwa na msamiati wa kutosha katika lugha
- x. Ni hatua inayofuata baada ya kipengere cha mwisho wa barua katika uandishi wa barua rasmi.
A. Jina la mwandishi
B. Cheo cha mwandishi
C. Saini ya mwandishi
D. Salamu za maagano
E. Jina la ofisi na jina la mwandishi
2. Oanisha fasili za tungo zilizopo katika Orodha A na dhana yake iliyopo katika Orodha B kisha andika herufi ya jibu sahihi katika kijitabu chako cha kujibia.

Orodha A	Orodha B
i. Sehemu ya kiarifu inayokaliwa na nomino	A. Kirai
ii. Neno au mpangilio wa maneno wenye neon kuu moja	B. Kishazi tegemezi
iii. Sehemu ya kiarifu inayokaliwa na kielezi	C. Chagizo
iv. Huundwa na vitenzi vyenye viambishi vya o-rejeshi	D. Shamirisho
v. Ni kikubwa kuliko kirai lakini kidogo kuliko sentensi	E. Kishazi
vi. "Mwanafunzi aye hakufika jana, asimame". Ni mfano wa tenti.....	F. Kirai kielezi
	G. Sentensi changamano
	H. Prediketa
	I. Sentensi amabatano
	J. kijalizo

SEHEMU B (alama 54) Jibu maswali yote katika sehemu hii.

3. Kwa kutumia mifano taja vipashio sita vya kiima
4. a) Eleza dhima ya kiambishi "ni" kilichopigwa mstari katika sentensi zifuatazo:
i. Alini saidia
ii. Wajumbe wapo mkutanoni
iii. Yeye ni mvivu
iv. Ninakulaumu
- b) Bainisha aina za maneno yaliyopigwa mstari katika sentensi zifuatazo:
i. Kucheza kwao sikupendi tena.
ii. Mwanafunzi hodari hufaulu mara kwa mara.
iii. Hivijataandika barua mapema?
iv. Nilipolilipua likalipuka lipu!
v. Mwalimu anafundisha darasani.
5. a) Sentensi zifuatazo zina makosa ya kisarufi, ziandike upya kwa usahihi:
i. Huyu hapendi ugomvi.
ii. Mafanikio alidondoka pale wakati anakimbia.
iii. Mtoto angepelekwa hospitalini mapema angelipona.
iv. Mzee Peko alichinja mbuzi zake zote.
- b) kwa kutumia mifano, andika miundo minne ya sentensi shurutia.

6. Kijiji chenu cha Songambe kimeanzisha mradi wa kilimo cha umwagiliaji. Wewe kama afisa manunuzi wa mradi, andika barua katika kampuni ya Sungura inayojihusisha na uuzaji wa pembejeo za kilimo ukikiri kupokea bidhaa zitakazotumika katika kuendesha mradi. Jina lako liwe Bisheni Mtafunguliwa.
7. Kwa kutumia mifano kutoka katika riwaya ya Takadini na Watoto wa Mama Ntilie, kwa kifupi ukitumia hoja nne; mbili kutoka kila riwaya, eleza ni jinsi gani mwanaume ameonekana kuwa kikwazo cha maendeleo katika jamii. Tumia mzee Lomolomo na Mzee Makwati.
8. Soma beti zifuatazo za shairi la kimapokeo kasha jibu maswali yanayofuata.

1. *Tuitafute elimu, vitabu vyote vyasema,
Ni kitu kilo muhimu, kwa maisha yako mema,
Tulipote na idumu, ijenge yalo hekima,
Elimu dira sahihi, ongoza yetu maisha.*

2. *Elimu kwetu ni mali, uishike ninasema,
Haitaki ukatili, yakutaka uwe mwema,
Maisha kuyakabili, kuyafanya yawe mema,
Elimu dira sahihi, ongoza yetu maisha.*

MASWALI;

- Bainisha ukwapi na utao wa mstari wa tatu wa ubeti wa pili.
- Taja tamathali mbili za semi kwa mifano kutoka katika shairi ulilosoma.
- Mwandishi wa shairi hili anazungumzia nafsi ipi? Thibitisha jibu lako kwa mifano miwili kutoka shairi ulilosoma.
- Elimu humpatia mtu fedha kutokana na taaluma aliyonayo lakini kuna watu wana fedha nyingi ila hawana elimu. Kwa mujibu wa shairi hili unadhamini watu hao wanakosa kitu gani cha msingi? Eleza kwa hoja moja.

SEHEMU C. (ALAMA 30)

Jibu maswali mawili (02) katika sehemu hii. Swali la tisa (09) ni la lazima na kila swali lina alama kumi na tano (15).

ORODHA YA VITABU

USHAIRI	
➤ Wasakatonge.	- MS Khatibu (DUP)
➤ Malenga Wapya	- TAKILUKI (DUP)
➤ Mashairi ya Chekacheka	- T. A. Mvungi (EP & D. LTD)
RIWAYA	
➤ Takadini.	- Ben J. Hanson (MBS)
➤ Watoto wa Mama Ntilie.	- E. Mbogo (ILP)
➤ Joka la Mdimu.	- A.J. Safari (ILP)
TAMTHILIA	
➤ Orodha.	- Steve Reynolds (MA)
➤ Ngoswe Penzi Kitovu cha Uzembe.	- E. Semzaba (ESC)
➤ Kilio Cheta.	- Medical Aid Foundation (FPH)

- Washairi ni waatalamu wazuri na waliobobea katika kutumia jazanda zinazotoa ujumbe kwa jamii. Tumia jazanda tatu kwa kila diwani mbili ulizosoma.
- "Mwanamke ni mtu mwenye huruma na fadhira." Thibitisha hoja hiyo kwa kutoa hoja tatu kwa kila kitabu kutoka katika vitabu viwili vya riwaya ulivyosoma.
- "Msanii wa kazi ya fasihi huwa haoti akiwa anatayarisha kazi yake" kwa kutumia hoja tatu kutoka tamthilia mbili ulizosoma thibitisha kauli hii. (hoja tatu kwa kila kitabu)

THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT
KIGOMA REGION



FORM FOUR MOCK EXAMINATION
GEOGRAPHY

CODE: 013

(For Both School and Private Candidates)

Time: 3 Hours

Wednesday, 16, July, 2025 A.M

Instructions:

1. This paper consists of sections A, B and C with a total of Eleven (11) questions
2. Answer all questions in section A and B and two (2) questions from section C.
3. Section A carries Sixteen (16) marks, section B carries Fifty Four (54) marks and section C carries Thirty (30) marks.
4. Map extract of LIWALE (Sheet 280/4) is provided
5. Programmable Calculators, cellular phones and any unauthorized materials are not allowed in the examination room.
6. Write your Examination Number on every page of your answer sheet(s).

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SECTION A (16 Marks) Answer all questions in this section

1. For each items (i)-(x), choose the correct answer from among the given alternatives and write its letter in the answer sheet/booklet (s) provided

- i. Mr.Peter of Dyuda is a Geography teacher of Itigi Secondary school. He told his students that people of East experience sunrise earlier than people of West because of earth's rotation. Which of the following places will experience sunrise earliest on any day?
- A. Kiteto 15°W C. Dar es salaam D. Njombe 35°E
B. Bagamoyo 49°E 45°E E. Mbalizi 30°E
- ii. Joseph was wondering the way slow movement of soil or land associated with Bending of trees,fences and telegraphic pole. What geological processes were occurring in the area?
- A. Talus creep D. Mudflow
B. Soil creep E. Avalanche
C. Solifluction
- iii. Population of any society is not static, it always change.What is the cause of that dynamism?
- A. Mortality, emigration and fecundity.
B. Fertility, mortality and migration.
C. Fertility, fecundity and migration.
D. Migration,mortality and fecundity.
E. Migration,emigration and immigration
- iv. The solar system is made of the sun, planets and other heavenly bodies which revolve around the sun. Which planet among the following has the shortest orbit?
- A. Pluto C. Mercury E. Neptune
B. Venus D. Earth
- v. Mr Pimbi told his children to collect the plant remains like grass from the previous farms and cover the banana plant in a newly cultivated farm. Which geographical term will be suitable to apply here?
- A. Mulching C. Terracing E. Leaching
B. Alleviation D. Bush fallowing
- vi. For rain to be formed it has to pass through some stages. As an expert in geography identify the correct processes of rain formation.
- A. Cooling, evaporation, condensation and precipitation
B. Evaporation, cooling, precipitation and rainfall
C. Evaporation, cooling, condensation and rainfall
D. Evaporation, precipitation, condensation and cooling
E. All the above
- vii. The tourist reported enjoying the temperature of Ihefu wet land in Mbeya at 1500 meters above sea level, which is 32°C. They also planned to travel from Ihefu to Unguja in Zanzibar which is at sea level. What might be the temperature experienced by the tourist in Zanzibar?
- A. 23°C C. 9°C E. 19°C
B. 0.6°C D. 41°C
- viii. Mwanahamisi was explaining to her grandmother about the layers of the earth's atmosphere. She told her that the atmosphere comprises of different layers in which one of them support rain formation due to its high amount of water vapour. From your understanding what is the name of the layer?

A Mesosphere
B. Stratosphere

C Exosphere
D. Troposphere

E. Ozonelayer

- ix. Suppose you are living in urban center and you are interested in keeping livestock. What type of livestock keeping would be suitable for you?

A. Nomadism
B. Ranching

C. Transhumance
D. Pastoralism

E. Sedentary

- x. Majaliwa visited a hot desert Landscape. During his visit he learnt that some of rocks used to crack and peel-off. The geographical term for this process is referred to as

A. Salt crystallization
B. Exfoliation

C. Carbonation
D. Granular disintegration

E. Hydrolysis

2. Match the items in list A with the correct response in list B by writing the letter of the corresponding response beside the items number in the answer sheet (s) provided

LISTA	LISTB
i. The settlement where by most people are pre dominantly engaged in extractive activities such as fishing and Forestry	A. Factors influencing the growth of settlement
ii. The actual piece of land upon which a settlement is built	B. Dispersed settlement
iii. The settlement pattern where by buildings are spread out or scattered.	C. Problems associated with urban growth.
iv. This is the process in which a population is transformed from a rural based agriculture life style to urban based non - agricultural life style.	D. Urbanization
v. Overcrowding in cities because of great availability of employment and good health services.	E. Urban settlement
vi. The settlement pattern with buildings developed along specific linear features.	F. Settlement site
	G. Rural settlement
	H. Nuclear settlement pattern
	I. Linear settlement pattern.

SECTION B (54 MARKS)

Answer all questions from this section

3. Carefully study the map extract of LIWALE (sheet 280/4) and answer the questions that follow
- Briefly describe two possible reasons for the growth of Liwale town
 - Giving reason, identify the dominant type of rock in the mapped area
 - Describe three characteristics of the rock mentioned in (a)
 - Calculate the area covered by woodland at grid reference of 820130 and 870130
 - Determine two methods used to show position over mapped area.
4. Study the table below showing production of coffee in Tanzania in '000' tons 1990 to 1996

Year	1990	1991	1992	1993	1994	1995	1996
Coffee	400	250	200	100	150	80	80

- Construct a divergent line graph to represent the data above
 - Give two other alternative methods that can be used to represent the data above
 - What are the two merits and two demerits of the method used to represent the data in (a) above?
5. Mr Chitemo was asked to conduct a research about loss of biodiversity at Mkomazi Game reserve which become more serious. Mr Chitemo before visited the area of study he decided to study

different materials related to his topic. As a research expert answer the following questions.

- Identify the type of research which will be conducted by Mr Chitemo.
 - Give out four(4) reasons why Mr Chitemo studied different materials before going in the field?
 - Identify the name of the research stage conducted by Mr Chitemo.
 - Describe three (3) research tools that Mr. Chitemo can use to collect data.
6. (a) After learning different types of simple land survey students were asked to explain fruits of studying chain survey but only Isack failed to explain. Assume you are a student who understood the lesson, how will you help him to list the fruits of chain survey? (Any six points).
- (b) Briefly explain the uses of the following tools as used in chain survey
- Cross staff
 - Pegs
 - Chain

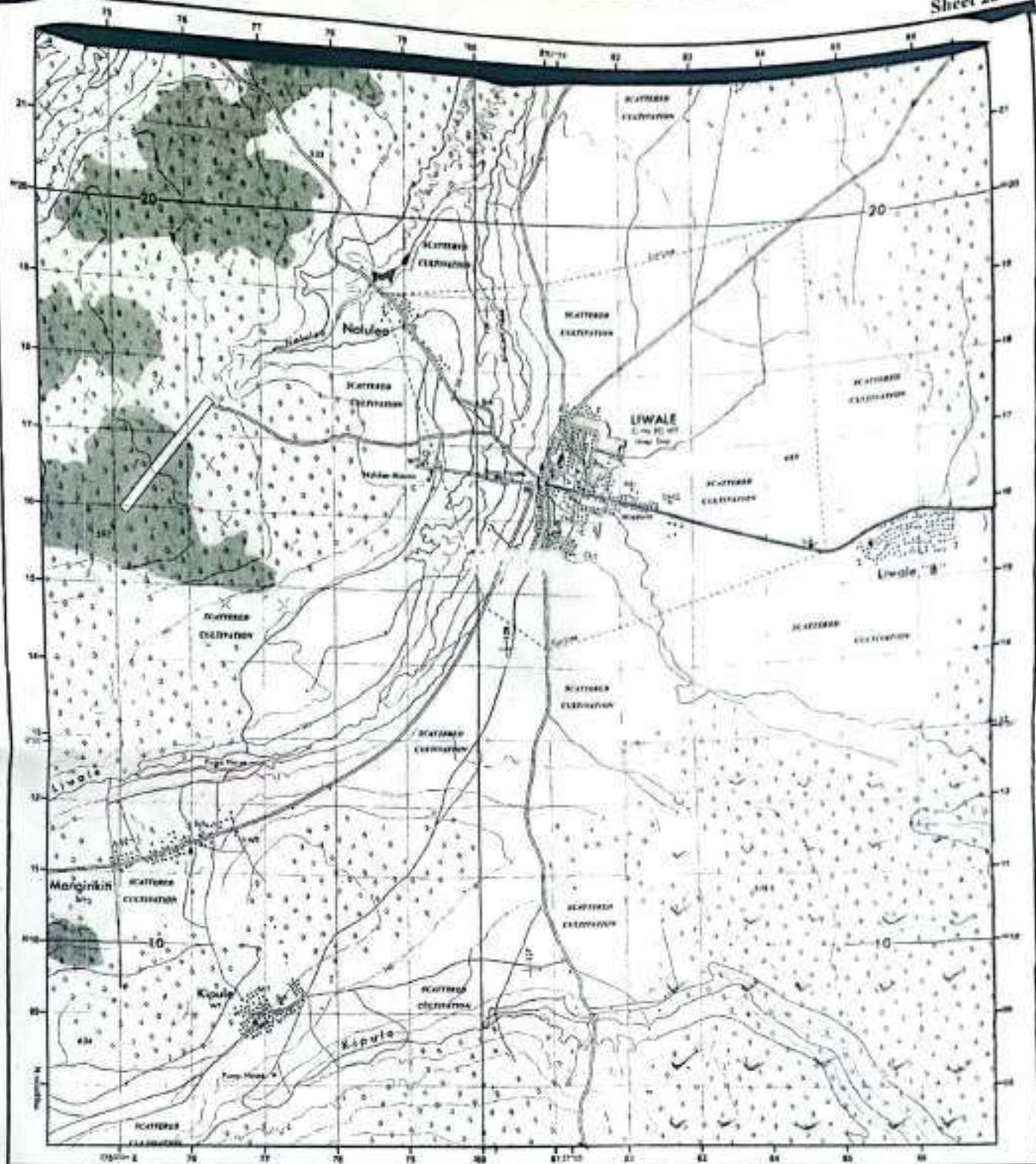
7. Study the following photograph below then answer the questions that follow



- With two reasons, name the type of photograph shown above
 - State the title of the photograph
 - Mention three (3) conditions necessary for the growth of crop you have mentioned in (a) above
 - State the scale of photograph
 - Describe two contributions of crop shown to the economy of Tanzania.
8. Ash and cinder cone, composite cone, crater and caldera are among the extrusive volcanic features. To what extent are volcanoes useful and disaster to human being? Describe three (3) points per each.

SECTION C (30 Marks) Answer two (2) questions from this section.

9. According to the census conducted in 2022 in our country, it has been observed that there is a great variation of the total population in our regions. Explain six (6) of the environmental factors that have influenced uneven population distribution in Tanzania.
10. The government of United Republic of Tanzania has entered into agreement to release Dar es Salaam port with an international company known as DP World of Dubai. As a Form Four student prove with six (6) points that harbours with good infrastructure are important to Tanzania economy
11. "Energy is the essential service whose availability and quality determines success or failure of development endeavors". In light of this statement, explain six (6) challenges facing power and energy harnessing in Tanzania



Extract from Liwale, Sheet 280/4
 Series Y142, Edition 1 - TSD, Ministry of Lands,
 Government of the United Republic of Tanzania, 1986

HEIGHTS IN METRES

Scale 1: 50,000

Town or area with Permanent Buildings	Telephone Line	Bamboo	Watercourse
Other Populated Area	Power Line	Plantation (Coffee C, Palm Sisal S, Sugar S, Waste W)	Well
House	Antiquity	Woodland	Scrub
All Weather Road	Mineral Works	Scrub	Scattered Trees
Bound Surface	Contours (100m) - Depressive	Palm Trees	Mangrove Swamp
All Weather Road	Boundaries: International	Thick Swamp	Papyrus Swamp, Marsh, Bgr.
Loose Surface	Regional	Sensational Swamp	Borchuic, Waterhole, Well, Spring
Dry Weather Road	District		
Main Track (Motorable)	Municipality/ Township		
Other Track and Footpath	Forest		
Cut Line	Thicket		
Railway, Siding, Station, Level Crossing			
Railway Light			
Airfield Runway			
Grass			

ABBREVIATIONS

CMP	Customs Baying Post
Ch	Church
CH	Court House
DC	District Commissioner
Disp	Dispensary
HC	Health Centre
Inst	Institution
Mkt	Market
Mt	Mountain
M/W	Ministry of Works
Mosq	Mosque
PO	Post Office
PP	Police Post
PS	Police Station
RH	Rail Head
Sch	School
T	Telephone
Tu	Telegraph

THE UNITED REPUBLIC OF TANZANIA
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REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT



KIGOMA REGION
FORM FOUR MOCK EXAMINATION JULY 2024

022

ENGLISH LANGUAGE
(For Both School and Private Candidates)

Time: 3:00 Hours

WEDNESDAY, 16TH JULY, 2025

2:00 PM

INSTRUCTIONS

1. This paper consists of section A, B and C with total of eleven (11) questions.
2. Answer all questions in section A and B and two questions from section C.
3. Cellular phones and any unauthorized materials are not allowed in the examination room.
4. Write your Examination number on every page of your answer sheet(s).

SECTION A: (16 Marks)

answer all questions from this section

1. For each of the item (i)-(x) choose the most correct answer from among the given alternatives and write its letter beside the item number in the answer booklet/sheet(s) provided.
 - (i) "In spite of the good harvest, the prices of maize are still high". How can this sentence be rewritten using the conjunction "despite"?
 - (a). Despite of the good harvest, the prices of maize are still high.
 - (b). Despite of the good harvest, the prices of maize are still low. ()
 - (c). Despite the good harvest, the prices of maize are still high.
 - (d). Despite being the good harvest, the prices of maize are still high.
 - (e). Despite of the fact that the harvest was good, the prices of maize are still high.
 - (ii) Suppose you are reading a daily newspaper with some pieces of information. Which one would you term as a fact?
 - (a) Many students are likely to be employed in the mining sector
 - (b) Other children might be enrolled to colleges for long course
 - (c) I think the solution is to give him a second chance ()
 - (d) 85% of the form iv students passed their national examination last year
 - (e) May be all form iv students passed their national examination last year
 - (ii) Simple present tense has several uses in a sentence. In which sentence below is used to show future plan? *Yes*
 - (a) The teacher comes from the holiday today
 - (b) The teacher comes from the holiday annually
 - (c) The teacher speaks French language

- (d) The teacher using overhead project weekly ()
 (e) The teacher leaves for holiday from school.
- (iv) Your English language teacher asked you to write an account of your life. How is the account of life called?
 (a) Biography (d) Bibliography
 (b) Autobiography (e) Autography
 (c) Anemography
- (v) The sudden death of Mr. Jacob shocked everyone, the doctors gathered to examine the dead body. The examination that the doctor did is referred to as.
 (a) Post mortem (d) Labour word
 (b) Post pertem (e) Obituary
 (c) Mortuary
- (vi) Imagine that you want to go for further studies your parents cannot afford to pay for your school fees. You have decided to apply for financial sponsorship from Christian foundation. When filling in the form you are required to follow except.
 (a) Be brief and accurate
 (b) Follow instructions carefully
 (c) Use unfamiliar symbols and abbreviations
 (d) Use neat and legible hand writing
 (e) Read the form carefully before fill it in.
- (vii) You meet a person who is short, slim, white and muscular on your way to school. Which word can be used to provide a given descriptions of the person?
 (a) Portrayal (d) Qualities
 (b) Observation (e) Image
 (c) Features
- (viii) After receiving your mid-term exams result you hear student saying "if I had studied hard I would have passed the exams. What does this sentence signify?
 (a) The student has the possibility of passing the exam
 (b) The student has no the possibility of passing the exam. ()
 (c) The student has totally no possibility of passing the exam.
 (d) The student is about to lose the possibility of passing the exam
 (e) The student has not known what to do.
- (ix) You hear your mother telling a neighbor "there was.....rainfall in March than in February this year" which word did he skip?
 (a) Less (c) Most (e) Plentiful
 (b) Plenty (d) Much
- (x) The Chief librarian Mr. Matai refused to..... Any other book.
 (a) Borrow me (d) Borrow for me
 (b) Borrow to me (e) Lend for me
 (c) Lend me

2. Match the figure of speech in column B with their corresponding example in column A in the table below.

COLUMN A	COLUMN B
i. Zakaria hit the table with his left hand BAMBAM. G	A. Simile
ii. He kicked the bucket to night B	B. Euphemism
iii. A child is bundle of joy F	C. Alliteration
iv. She is beautiful as an angel A	D. Personification
v. They mocked him saying he had a ape sized brain. U	E. Metaphor
vi. Ngoswe is a giraffe E	F. Hyperbole
	G. Onomatopoeia
	H. Satire
	I. Rhetorical question

SECTION: B (54 Marks) Answer all questions in this section.

3. Read the following passage carefully and answer the questions that follow

One of our responsibilities facing all of us today is how to preserve our environment. Environment is composed of earth's land and vegetation, water and air. In the past, most people never thought about the environment. They just assumed that there would always be unlimited of fresh air, clean water and place to dump garbage.

Now however, we are beginning to realize that fresh air, clean water and forest are precious. These natural resources also cross national boundaries. In other words, environmental protection is concerned not just of Tanzania but of citizen of every country in the world.

In the future as population expands more and more people will demand for environmental products, hence the earth's environment may be in danger. Water and air pollution is increasing and is harmful to living things as it causes air borne and water borne diseases, poor waste disposal is dangerous to the lives land and aquatic creatures, improper use of chemicals from industries and mining sites has caused serious loss of thousands of biodiversity, and acidic rainfall resulting to drought.

Re-using products such as paper and water will probably continue to be seen as practical solution to environmental problems caused by garbage disposal. We also may refuse the habit of using certain products we like. Such as plastic bags and bottles, due to the negative effects of those products on the environment. Additionally we may reduce the use of some environmentally harmful products like petrol, charcoal and substitute them with gas. In this situation environmental education is necessary.

One of today's most serious challenges is how to conserve and restore the environment so that human beings can survive. This can succeed if we apply scientifically researched technology and practicable laws to answer the questions on environmental preservation.

Questions

- Suggest a suitable title for the passage.
 - According to author, who is responsible for the environmental preservation?
 - Identify three major disasters which can happen due to environmental destruction according to the passage.
 - Point out three viable mitigation measures to be applied for environmental preservation.
4. Future expression can be expressed in a number of ways. Construct one sentence using the given illustrations
- The use of simple present tense *Am meeting my father next month*
 - The use of present progressive tense *we are starting the exam next week*
 - The use of "be" + going + to infinitive of the verb *she is going to eat a cow next month*
 - The use of "be" + about + to infinitive of the verb *he is about to sleep tomorrow night*
 - The use of "be" + to infinitive of the verb *proper next month*
 - The use of "have" + to infinitive form of the verb *I have to finish this project next month*
5. Choose the correct word from those supplied in the box below to complete sentences (i) – (ix).

School, crowd, pride, swarm, herd, hordes, princess, linguistic, thief, artist, musician,

- There was a big crowd of people in the meeting.
- A herd of whales surrounded us in the sea.
- The village was invaded by a swarm of bees.
- We saw a pride of lions in the park.
- Plays a guitar, piano, trumpet, etc. musician
- Paints pictures, signs, composes poems. artist
- Takes other people's properties without their permission thief
- Is an expert in language studies linguistic
- A daughter of a royal family princess

6. Re-write the following sentence according to the instruction given after each

- Up-country trains are usually not late during rainy season.
(Begin: Seldom... *Up-country trains are usually not late*)
- I did not see Jamila at the party. Joyce did not see her either.
(Re-write the sentence using neither... nor...)
- Miranda is beautiful. Her friend is beautiful.
(Re-write the sentence using... as well as...)
- Scarcely had she returned home, someone knocked at the door
(Begin: She *had scarcely returned home when someone knocked at the door*)
- No sooner had they sent the message than the phone rang
(Begin: They *had no sooner sent the message than the phone rang*)
- If you don't ask me, I cannot help you
Unless you ask me, I will not help you

in - mean
very rarely

(Begin: Unless.....)

7. Complete the following sentences in (i) – (vi) by providing an appropriate article for each.

- (i) I bought an orange at the market.
 (ii) Elton landed on the moon in 1960.
 (iii) Here is the man that I told you about.
 (iv) The toy that I bought for my children was stolen.
 (v) I saw a woman at the bus stop. The woman is now playing tennis.
 (vi) The sun is rising from north.

8. (a) Complete each of the following sentences by adding negative prefixes to the word in brackets to make a meaningful sentence.

- (i) We were dis (qualified) for the job because of lateness
 (ii) They have been doing il (legitimate) business for many years
 (iii) She was to exercise after being in (active) for a month
 (iv) The road to mitimirefu has been im (passable) since it started raining in December 2024.
 (v) The sudden death of parent is un (forgettable) event in our family.

(b) Change the following sentences into negative form without using the word (NOT)

- (i) It is legal for the student to riot
 (ii) It was possible to find him
 (iii) He tied my shoes lasses.
 (iii) Cutting trees is advantageous to us

SECTION: C (30 Marks) Answer two (02) questions only from this section.

9. Suppose you're a chairperson of the English club at your school. And you been invited to attend debate competition at Mwanza secondary school P.O.BOX 377, by using six points argue for (support) or against(oppose) the motion "PREGNANT SCHOOL GIRLS SHOULD BE ALLOWED TO CONTINUE WITH STUDIES AFTER DELIVERY"
10. With reference to any two novels you have read under this section, discuss things which you think are not good to be practised with the future generation. Give three points from each reading.

11. Analyse the causes of conflicts in the two plays that you have studied in this section. Give three points from each reading.

**LIST OF READING FOR QUESTIONS
NOVELS AND SHORT STORIES**

A wreath for Fr. Mayer.	-S.N. Nduguru (1977), MkukinaNyota
Unanswered cries	-Osman conteh, Macmillan
Passed like a shadow	-B.M. Mapalala(2006), DUP
Spared	- S.N. Ndunguru(2004) MkukinaNyota
Weep Not Child	- Ngugiwathiong'o(1987) Heinman
The interview	-P. Ngugi(2002), Macmillan

PLAYS

Three Suitors one Husband	-O. Mbisa(1994), Eyre Methuen
The Lion and the Jewel	- w. Soyinka(1963), OUP
This Time Tomorrow	- Ngugiwathiong'o(1972), Heinmann
The Black Hermit	- Ngugiwathiong'o(1968), Heinmann

POETRY

Songs o Lawino and Ocol	- O.P' Bitek(1979), EAPH
Growing up with poetry	- D. Rubadiri(Ed) (1989), Heinmann
Summons	- R. Mabala(1960) TPH

In-vowel sound
 eg. on hour
 A - general
 The specific
 Speaking in second time
 Universal truth
 One in universal

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**KIGOMA REGION
FORM FOUR MOCK EXAMINATION JULY 2025**

011

**CIVICS
(For Both School and Private Candidates)**

Time: 3:00 Hours

MONDAY, 14TH JULY, 2025

8:00 AM

INSTRUCTIONS

1. This paper consists of sections A, B and C with total of Eleven (11) Questions.
2. Answer all questions in section A and B and (2) questions from section C
3. Section A Carries Sixteen (16) marks, section B carries Fifty-four (54) marks and section C carries Thirty (30) marks.
4. Cellular phones and any unauthorized materials are not allowed in the examination room.
5. All drawings should be in pencil where necessary.
6. Write your Examination number on every page of your answer sheet(s).

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SECTION A (16 MARKS) Answer all questions in this section

1. For each of the item I-X choose the correct answer from among the given alternatives and write its letter beside the item number in the answer sheets provided
 - i. Tanzania government exercises her freedom to decide and execute her domestic and foreign policies without interferes from other country. This is to say Tanzania is?
 - A. Non democratic state
 - B. Sovereign state
 - C. Domestic state
 - D. Nationalize state
 - E. Liberated state
 - ii. Civil societies in Tanzania contribute to social-economic development in the country, one of the following is a feature of these organizations.
 - A. Services delivery
 - B. They are autonomous
 - C. Legal uncertainty
 - D. Philanthropic civil societies
 - E. Limited contribution to the public resources
 - iii. The world has been affected with different issues relating with socio-economic and political matters. How can countries minimize the negative effects of globalization?
 - A. By protecting local industries and promoting cultural heritage
 - B. By refusing to use foreign technology
 - C. By cutting off all international relations
 - D. By dis- courage the multipartism
 - E. By burning international trade agreements
 - iv. Democracy is the form of government in which people rule, the majority of the people have supreme power to make political decisions in the country. What is the major challenge facing democracy in the World today?
 - A. The elimination of corruption in all government
 - B. The rise of authoritarian governments and political instability
 - C. Equal political participation for all citizens
 - D. A lack of global interest in democratic values
 - E. The rise capitalism
 - v. Around the world there are different human rights agency, these agencies deal with promoting of human rights. Which agency serves as specific foundation for international human rights?
 - A. The universal declaration of human rights (UDHR)
 - B. The international monetary fund
 - C. The world trade organization agreement
 - D. The united nations charter
 - E. The national bill of rights

- vi. Banks is an institutional which enable people, public agency and private agency to serve money. What is the advantage of saving money in a bank?
- A. The bank takes ownership of the money
 - B. The money cannot be with drawn
 - C. Easy to acquire loan
 - D. To keep Security
 - E. Minimize un necessary uses
- vii. Amina married John. After few years John died. Then John's family forced Amina to marry John's young brother. How can you describe such kind of marriage?
- A. Polygamy
 - B. Monogamy
 - C. Widow inheritance
 - D. Early marriage
 - E. Adoption marriage
- viii. Nyamiti has decided to study science subjects aiming at becoming a doctor. What type of work will Nyamiti do in future?
- A. Community work
 - B. Mental work
 - C. Physical work
 - D. Non mental work
 - E. Non-physical work
- ix. A patient from Maweni Hospital is diagnosed with the sign of high fever, cough, difficult breath and tiredness. which current diseases would you think the patient is suffering from?
- A. Cholera
 - B. Malaria
 - C. Covid 19
 - D. Typhoid
 - E. Sleeping sickness
- x. A student at Kibondo girls, she always work hard in her studies and she takes necessary steps to achieve it. What ability is she showing?
- A. Emotions
 - B. Coping with stress
 - C. Forming friendship
 - D. Empathy
 - E. Awareness
2. Match the description of court system of Tanzania in List A with the correct ranges of court of Tanzania.

List A	List B
I. The court system in judiciary of Tanzania where the head is Court Magistrate.	A. High court
II. The court system in judiciary of Tanzania which is headed by Resident Magistrate.	B. Regional Magistrate Court
III. The court system in Tanzania which is found in region level and headed by Principal Resident Magistrate.	C. Primary Court
IV. The judicial system in Tanzania which is administered by the Judges with the assistance from the District Magistrate.	D. Court of Appeal
V. The court system in Tanzania which is headed by Chief Justice.	E. District Court
VI. The court system in Tanzania that deals with union matters.	F. Court of Appeal of the United Republic of Tanzania
	G. Resident Magistrate Court
	H. District Kadhi's Court

SECTION B (54 Marks) *Answer all questions in this section*

- The headmistress at Mkoza secondary school is addressing to students on proper ways of assisting blind students at school. Identify six special groups and explain the responsibilities of Tanzanian citizens to special groups.
- "Mr. Chauma is confused about the relationship between globalization and environmental degradation. As a civics expert, mention to him six key points that illustrate the connection between these two concepts"
- "In 1st May each year people of Tanzania celebrating worker's days" imagine you're the Ward Executive Officer, explain to your community why there is important to celebrate National Festivals in Tanzania. Outline six points.
- "Mass media has a big role to construct the society through the programs which are prepared. But on other hand can destroy the society if is not monitored. How mass media can destroy cultural values. mention six points
- In Tanzania, there are several political parties so what role do political parties play in general elections (list six roles).
- The female status in some societies is affected with the negative socio- cultural practices. As a community development officer, examine five socio-cultural practice that lead to the spread of HIV/ AIDS to women in Tanzania. Outline six points

SECTION C (30 Marks) *Answer two questions from these sections*

- Most members in your community are not causes of high incidences of road accidents. As a knowledgeable community member briefly explain five causes of road accidents in Tanzania
- In Africa and particularly in the sub Saharan countries, courtship can be categorized into two forms. Elaborate five importance of courtship.
- Suppose you have been invited to provide a motivational speech to the entrepreneurs and traders of Ujiji market, prepare five points to analyze the benefits of having effective government on social economic development in a community.

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KIGOMA REGION
FORM FOUR MOCK EXAMINATION JULY 2025

032/2A

CHEMISTRY 2A (PRACTICAL)
(For Both School and Private Candidates)

Time: 2:30 Hours

TUESDAY, 22ND JULY, 2025

10:00 A.M

INSTRUCTIONS

1. This paper consists of two (2) questions. Answer all questions.
2. Each question carries twenty five (25) marks.
3. All writing must be in Blue or black ink, except drawings which must be in pencil.
4. Communication devices and any unauthorized materials are not allowed in the examination room.
5. Write your examination number on every page of your answer booklet(s).
6. You may use the following constants

Atomic masses: H=1, Na=23, K=39, O=16, S=32.

1 .You are provided with the following solutions:

X1:Contain 5.6g of TOH in 1 dm³ of solution.

X2:Contain 4.9g of sulphuric acid dissolved in 1 dm³ of solution.

MO Methyl orange

Procedure

- (i) Titrate the acid solution(in burette) against the base solution(in conical flask) using Methyl orange (MO)as an indicator up to the end point.
- (ii) Repeat the step (i) to obtain three more readings in tabular form.

Questions

- (a)(i) What is the volume of pipette used?
 - (ii)What are the colour changes at the end point?
 - (iii)Calculate the average volume of the acid used to neutralize the base.
- (b) Write a balanced chemical equation for the reaction in this experiment.
- (c)Showing your procedures clearly, identify element T in the TOH compound.

2. Sample L is a simple salt. Carry out the experiments described below. Record your observations and make appropriate inferences and hence identify the cation and anion present in sample L

Table 1

Experiment	Observations	Inference
a) Appearance of the sample L		
b) Heat a little sample L in a dry test tube.		
c)Dissolve a little sample L in water and divide the solution into five portions		

(i) To One portion add NaOH till in excess.		
(ii) To the second portion add dilute HCl then heat		
(iii) To the third portion add freshly prepared FeSO_4 solution followed by concentrated H_2SO_4 slowly added though the sides of the test tube.		
(iv) To the fourth Portion add ammonia solution till in excess		
(v) To the fifth portion add nitric acid followed by 3 drops of silver nitrate solution and then add excess ammonia solution.		

Questions

- What are the cation and anion in the sample L
- Write the molecular formula of the sample L.
- Mention two(2) uses of the sample identified.

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KIGOMA REGION

FORM FOUR MOCK EXAMINATION, JULY—2025

CODE:032/1

CHEMISTRY I

Time:3:00 Hrs.

18- JULY -2025AM

1. This paper consists of three sections A,B and C with a total of eleven questions
2. Answer all questions in section A and B and any two questions in section C
3. Section a carries 16 marks, section B carries 54 marks and section C CARRIES 30 marks
4. Non programmable calculators may be used
5. Cellular phones and any unauthorized materials are not allowed in the Examination Room
6. Write your Examination Number on every page of your Booklet
7. The following constants may be used:

Atomic masses: $H = 1$, $C = 12$, $N = 14$, $O = 16$, $Na = 23$, $Cl = 35.5$,

$Ca = 40$, $Mg = 24$, $S = 32$, $Ag = 108$, $Cu = 64$, $Fe = 56$, $Pb = 208$

Avogadro's number (N_A) = 6.02×10^{23}

GMV at STP= $22.4 \text{ dm}^3/\text{mol}$

1Faraday = 96500 Coulombs

1Litre = $1 \text{ dm}^3 = 1000 \text{ cm}^3$

Question	For examiner's use only	
	Score	Initials
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
TOTAL		

SECTION A (16 MARKS)

Answer all questions in this section

- 1 For each of the items (i)-(x), choose the correct answer from the given alternatives and write the letter of the item number in the answer sheet:

(i). Which among the following represents the solution with P^H of 5?

- A. Strong base
- B. A neutral
- C. A weak acid
- D. A strong acid
- E. A weak base

(ii). How can generally insoluble salts like Barium sulphate be obtained in the laboratory?

- A. Evaporation of its concentrated solution
- B. Crystallization
- C. Precipitation
- D. Decomposition
- E. Displacement

(iii). In an experiment, 1930 coulombs liberated 0.64g of copper when the same quantity of electricity was passed through a solution of silver nitrate. What amount of silver was deposited?

- A. 32g
- B. 2.16g
- C. 108g
- D. 10.80g
- E. 21.60g

(iv). When sand and wax are put in the same container and some volume of petrol is added, after few minutes sand is seen and not wax. Why wax is not seen after addition of petrol?

- A. Because wax is insoluble in petrol
- B. Because ether mixture reached the equilibrium
- C. Because petrol is flammable
- D. Because wax is soluble in petrol
- E. Because sand dissolve in petrol

(v). In blast furnace carbon monoxide is prepared by passing carbon dioxide over a red hot coke. What is the chemical role of carbon dioxide?

- A. An accelerator
- B. An oxidizing agent
- C. A reducing agent
- D. A catalyst
- E. Flammable

- (vi). What group of organic compound is formed when ethanol react with ethanoic acids?
- Alkynes
 - Haloalkanes
 - Esters
 - Alkenes
 - Alkanes
- (vii). A form one student dissolved one mole of salt M into water and the solution was tested by litmus paper. If the salt was found to change blue litmus paper to red what is it likely to be?
- Normal
 - Complex
 - Basic
 - Acidic
 - Neutral
- (viii). If student wants to electroplate a spoon with copper by using copper (II) sulphate solution, how he/she should arrange the electrodes?
- Spoon as anode and copper as cathode
 - Spoon as cathode and copper as anode
 - Spoon as anode and carbon as cathode
 - Spoon as cathode and copper sulphate solution
 - Spoon as copper solution
- (ix). Which methods could be used to separate products in the following equation?
- $$Pb(NO_3)_2(aq) + 2KI(aq) \longrightarrow PbI_2(s) + 2KNO_3(aq)$$
- Chromatography
 - Crystallization
 - Distillation
 - Condensation
 - Filtration
- (x). Why does white anhydrous copper(II) sulphate turns blue when exposed to the atmosphere?
- Absorbs moisture
 - React with oxygen
 - React with carbon dioxide
 - Becomes dry
 - Release water to the atmosphere

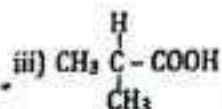
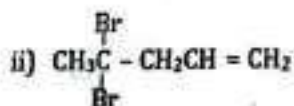
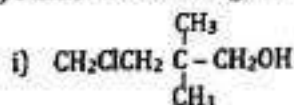
- 2 Match the items on given in LIST A with the correct responses in LISTB by writing the Letter of the correct response in the answer booklet/sheet provided

Column A	Column B
i) A colorless gas which is slightly soluble in water, neutral to litmus paper but used as fuel	A. Oxygen
ii) It supports plant survival but less important to combustion	B. Nitrogen
iii) A greenish gas denser than air and used as military weapon since it is poisonous	C. Sulphur dioxide
iv) It is colorless acidic gas with pungent choking smell, used to control P^H in chemical process	D. Hydrogen chloride
v) A non-poisonous gas physically isolated from air and used to make fertilizer	E. Carbon dioxide
vi) It has strong choking smell of urine	F. Fluorine
	G Ammonia
	H. Hydrogen
	I. Chlorine

SECTION B (54 MARKS)

Answer all questions in this section

- 3 (a) Explain how the following differ from one another
- A base and Alkali
 - An atom and isotope
- (b) An organic compound P consists of 52.2% of carbon, 13% of Hydrogen and 34.8% of oxygen. The vapour density of p is 23. Calculate the molecular formula of the compound.
- (c) Calculate the oxidation number of nitrogen in potassium nitrate
- 4 (a). Form four students of Tanzanite Secondary School went for tour studies at a refinery industry, the technician of the industry did not explain the terms below clearly. You as a form four student give clarification about these terms.
- Cracking
 - Homologous series
 - Functional group
 - Esterification
- (b) Giving two reasons explain why carbon is found in all organic compounds?
- (c) Name the following compounds according to IUPAC system.



- 5 (a) Give the name of metal which fits the following descriptions:
- It produces cracking sound when burnt and its oxide is brown when hot and yellowish when cold
 - Its green coloured carbonate decomposed when heated to form a black oxide.
 - Litmus be kept under paraffin to protect it from reaction
- (b) Iron is extracted from hematite ore by reduction method in the blast furnace
- Write the equation for the reduction of hematite ore in the furnace
 - What is the use of lime stone, molten slag and waste gases in the blast furnace
- 6 (a) A green solid sample A on heating gave off gas B which turns lime water milky and a black solid C remained. Solid C in warm dilute sulphuric acid forms a blue solution D
- Give the chemical formula of compound A, B, C, D
 - Write a balanced chemical equation for the reaction when a green solid A is heated
- (b) Describe what is observed when concentrated sulphuric acid is added to;
- White sugar
 - Hydrated copper(II) sulphate
 - Sulphur
- 7 (a) What are the noble gases?
- (b) In which group of periodic table does noble gases belongs?
- (c) What is common about the noble gases regarding the following properties
- Electronic arrangements
 - Chemical reactions
- 8 (a) Rust is destructive to materials made of iron/steel that are used in industries, at home and elsewhere. State method that can be used to prevent it on each of the following
- Iron sheet
 - Bridge and pipelines
 - Ship
 - Machine parts
- (b) Give five types of fire extinguishers.

SECTION C (30 MARKS)

Answer any two questions in this section

- 9 (a)(i) Ammonium sulphate is used as fertilizer to add nitrogen into the soil. What is meant by the term fertilizer in chemistry?
- (ii) What are the three effects of excessive nitrogen to plants?
- (b)(i) State four (4) methods of application of fertilizers
- (ii) What are the four (4) advantages of using manure in farms.
- (c) Calculate the percentage composition of nitrogen in ammonium sulphate fertilizer $(\text{NH}_4)_2\text{SO}_4$.
- 10 We have a coal mining at Kiwira in Mbeya Region. Authorities in the government have allowed using of coal for domestic and industrial purposes. What warning can you raise as concerning likely effects? Give five points.
- 11 (a) When I was in an interview at a certain school, one student asked me to state Faraday's Laws of Electrolysis. If you were me, how could you answer that student?
- (b) Dilute silver nitrate solution was decomposed by the passage of electric current through it. What mass of silver and what volume of oxygen (measured at STP) would be liberated in electrolysis by 9650 Coulombs of Electricity?

THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT



KIGOMA REGION
FORM FOUR MOCK EXAMINATION JULY 2025

033/2

BIOLOGY 2A
(For Both School and Private Candidates)

Time: 2:30 Hours

THURSDAY, 17TH JULY, 2025

10:00 A.M

INSTRUCTIONS

- This paper consists of two questions
- Answer ALL questions
- All writing should be in blue or black pen, except for diagrams that must be drawn in pencil
- Communication devices and any unauthorised materials are NOT allowed in the examination room
- Write your examination number on every page of your answer booklet(s)

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1. You have provided with the following materials namely stop watch, beaker, hot water, fresh leaf and forceps. Then perform the following activities and answer questions that follow.

- a) Take fresh leaf given and place it in a beaker with hot water.
- b) Make observation for five minutes.

QUESTIONS

- i) Which side of the leaf produces many bubbles?
- ii) What caused the formation of bubbles?
- iii) Draw internal structure of the leaf
- iv) What conclusion can you make to the above experiment?
- v) Write down three importance's of gaseous exchange in plants.
- vi) Outline factors affecting the rate of gaseous exchange in plant

2. Carefully observe the specimen given and then answer the following questions

- a). Identify the organisms by using their common name
- b). Name the natural habitat of specimen, M3 and M4
- c). State the economic importance's of specimen M4 to organisms found in it's habitats
- d). Explain at least three general characteristics of the phylum in which specimens M2, M3, and M4 are found
- e). Name the class in which each of the specimens M1, M2, M3 and M4 belongs
- f). Mention only two distinctive features of the class which specimen M3 belongs

**THE UNITED REPUBLIC OF TANZANIA
PRESIDENT'S OFFICE
REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**



**KIGOMA REGION
FORM FOUR MOCK EXAMINATION JULY 2025**

033/1

**BIOLOGY 1
(For Both School and Private Candidates)**

Time: 3:00 Hours

MONDAY, 14TH JULY, 2025

2:00 PM

INSTRUCTIONS

- i. This paper consists of sections A, B and C with a total of fifteen (11) questions
- ii. Answer all questions in sections A and B and two (2) questions from section C.
- iii. All writings should be blue or black pen, except for diagrams which must be drawn in pencil.
- iv. All answers should be written in the answer sheets provided.
- v. Cellular phones and any unauthorized materials are not allowed in the examination room.
- vi. Write your examination number on every page of your answer sheet (s).
- vii. It consists of four (6) printed pages.

SECTION A (16 MARKS)

1. In items (i) –(x) select the best answer among the given alternatives and write its letter in the space provided.

- (i) Assume your friend accidentally cut his finger, which item will you use instead of gloves to stop him from bleeding?
- A. Socks
B. Tin
C. Plastic bag
D. Paper
E. Piece of cloth
- (ii) During a practical session Adam picked a plant which had the following characteristics fibrous root system, non-wood stem, vascular bundles without cambium and the flowers contained six sepals and six petals. As a biologist what class of a plant picked by Adam belongs?
- A. Dicotyledonae
B. Angiospermatophyta
C. Coniferophyta
D. Monocotyledonae
E. Pteridophyta
- (iii) Kameme was driving a bicycle in a sun day hour he lost a lot of water through sweating. Which of the following organs are responsible for water loss?
- A. Skin
B. Kidney
C. Liver
D. Stomach
E. Nephron
- (iv) An axon is one of the parts of nerve cell that plays an important role in transmission of impulses. Which one of the following roles is performed by an axon?
- A. Towards the cell body
B. Across the synapse
C. Away from the cell body
D. To sensory organ
E. Within the effector organs
- (v) Plant and animal cells have some features in common. What are they among the following?
- A. Cell membrane, cell wall and chloroplast
B. Mitochondria, nucleus and cell wall
C. Chloroplast, nucleus and chloroplast
D. Cell membrane, cytoplasm and nucleus
E. Vacuole, cell wall and nucleus.
- (vi) The growth of human being starts before and after birth by following a systematic growth patterns which is
- A. Localized growth
B. Isometric growth
C. Allometric growth
D. Diffuse growth
E. Intermittent growth
- (vii) Farmers in several villages in Kigoma region visited the regional referral hospital with the same complain of vomiting, diarrhoea look like rice water and wrinkled skin. Which disease is likely affecting them;
- A. Gonorrhoea
B. Cholera
C. Malaria
D. Bilharzia
E. Tuberculosis
- (viii) Chicken, dogs and human being have ability to maintain constant body temperature. They are therefore described as;
- A. Homeotherms
B. Poikilotherms
C. Ectotherms
D. Regulators
E. Cold blooded organisms
- (ix) There are several theories that try to suggest the origin of life. Which one of the following theories suggests that life arose from non-living matter?
- A. Steady state theory
B. Spontaneous generation theory
C. Cosmozoan theory
D. Special creation theory
E. Biogenesis theory
F.
- (x) Environment comprises of biotic and abiotic factors. Which among the following form the abiotic part of the natural environment?
- A. Light, water and trees
B. Relief, light and air
C. River, soil and bacteria

D. Animals, wind and humidity

E. Plants, fungi and rocks

2. Match the items in list A with their corresponding responses in list B by writing the letter of correct answer against the number of item.

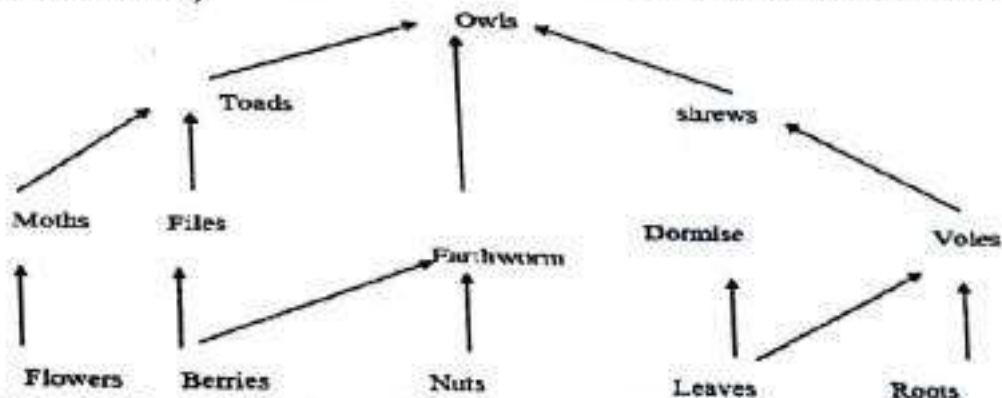
List A	List B
(i) Oxidation of glucose into energy.	A. Bronchiole
(ii) Specialized cell in plants that control the opening and closing of the stomata.	B. Lenticels
(iii) Part of the respiratory system that allows the passage of air to and from the lungs.	C. Alcohol
(iv) One of the small pores on the bark of woody plants which is responsible for gaseous exchange.	D. Alveoli
(v) A thin tube that branches from a bronchus within the lung.	E. Aerobic respiration
(vi) One of the end products of fermentation process in plants.	F. Anaerobic respiration
	G. Stomata
	H. Lactic acid
	I. Guard cells
	J. Spongy mesophyll cells
	K. Trachea

SECTION B (54 MARKS)

3. Some chemicals used in biological experiments are very dangerous and harmful. In what ways the following substances are harmful?

- (i) Biohazards
- (ii) Radioactive substances
- (iii) Toxic substances
- (iv) Corrosive substances
- (v) Highly flammable substances
- (vi) Oxidizing agents

4. In a certain survey a researcher observed different organisms living in a particular environment. After a long time of observation he realized that most organism were interacting and he finally decided to construct a food web as seen below. Study the diagram and answer the questions that follow;



- (a) From the diagram name (i) one primary consumer and (ii) one Secondary consumer
- (b) Construct, using the food web above, one food chain, with four links
- (c) Explain why every food chain must begin with green plant.
- (d) If all the owls were killed, what would happen to the size of the populations of earthworms?
- (e) Name the organisms which are both secondary consumers and tertiary consumers

5. Plants depend on their leaves to get food since they are the only parts through which photosynthesis process takes place;

- (a) Give four reasons as to why a plant leaf is said to be suitable for photosynthesis
- (b) How the process of photosynthesis is important in our daily life? Give three points.

(c) Write a well balanced equation of photosynthesis including conditions necessary.

6. There are so many disorders related to reproductive systems that affect reproduction in human being.

(a) Explain briefly one cause of any two disorders that may interfere the reproductive system of a female and one cause of any two disorders that may interfere the reproductive system of a male.

(b) Plants that undergo sexual reproduction need to have a certain reproductive organ. Name a particular organ.

7. (a) A biology teacher distributed the following materials to Form Three students such that pieces of lemon, pieces of sugarcane, flagyl tablets and common salt. He asked the students to draw the structure responsible for tasting the provided materials and label it by using materials to indicate where they are being tasted.

(b) State three roles apart from tasting that are performed by the structure drawn in 7(a) above.

8. (a) Among the characteristics of living things is growth and development. In order for an organism to grow well, there must be a particular cell division.

(i) Identify and give the meaning of the kind of cell division responsible for the growth.

(ii) What will be the effects in living organisms if the process mentioned above would not occur? (Four points).

(b) State three roles of water during seed germination.

SECTION C (30 MARKS)

9. Between months of June and October most plants start to undergo wilting, this is due to light intensity from the sun causing the plant leaves to lose water into the atmosphere.

(i) Name the process in which the plant leaves lose water in the atmosphere during the day.

(ii) Outline and explain three environmental factors that affect the rate of the process mentioned in (i) above.

(iii) Explain three advantages and two disadvantages of the above named process in (i) above.

10. A biologist called Gregor Mendel crossbred between a white bull and black cow and obtained all F₁ generation with white fur. But after self crossing of F₁ individuals, Mendel observed that some individuals of F₂ had white fur and others had black fur.

(a) Which character was dominant? Give reason

(b) Use genetic diagrams to show how F₁ and F₂ were obtained.

(c) State the phenotypes and genotypes of F₂ generation.

(d) If 104 individuals were obtained in F₂ generation

(i) How many were white?

(ii) How many were black?

11. A certain boy visited his grandmother and found her with the following symptoms; chills, fever, sweating, nausea and vomiting, joint pain, headache and abdominal pain. Then he decided to take her to the hospital for diagnosis and treatment.

(a) Name the disease the grandmother was suffering.

(b) Discuss the cause, mode of transmission and control measures of the disease named in (a) above.