FORM END TERM 2 EXAM

[FULL PAPERS I.E PP1,2 AND 3 PLUS CONFIDENTIALS]



FOR ANSWERS CALL 0743241064

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- ***SETBOOK GUIDES BOTH ENG AND KSW***
- ***SETBOOK QUESTIONS AND ANSWERS***
- ***TOPICAL PREDICTION***
- ***NOTES***
- ***EDUCATIONAL VIDEOS***
- ***MOCKS AND POSTMOCKS***
- ***SOW***

Name:.....Class:.....Adm No:.....
FORM 3END-TERM EXAM
MATHEMATICS PAPER 2
TERM 2 2023.
TIME –

INSTRUCTIONS TO CANDIDATES.
Answer all the questions in the spaces provided.

SECTION A

1. The base and perpendicular height of a triangle measured to the nearest cm are 6cm and 4cm respectively. Find:
   a) The absolute error in calculating the area of triangle. (2mks)

   b) The percentage error in the area answer to 1 d.p. (2mks)

2. Simplify: (4mks)

$$\frac{4}{\sqrt{5}+\sqrt{2}} - \frac{3}{\sqrt{5}-\sqrt{2}}$$

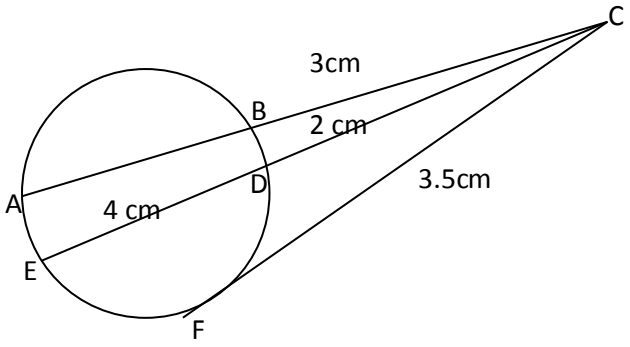
3. Solve the equation: (3mks)

   $\log (x + 24) - 2 \log 3 = \log (9 - 2x)$

4. Use completing square method to solve: (3mks)

$3x^2 + 15x - 6 = 0$

5. The figure below shows a circle with tangent CF and secant ABC and CDE, BC =3cm.



Find:

a) Length of CF (2mks)

b) Length of AB (2mks)

6. Mr. Man deposited 80000 in a bank account that paid compound interest at the rate of 8 $^1/_3$% p.a, calculate the interest earned after 4 years if compounding was done quarterly. (3mks)

7. A carpenter wishes to make a ladder with 15 cross pieces. The cross pieces are to diminish uniformly in length from 67 cm at the bottom to 32cm at the top. Calculate the length in cm, of the seventh cross piece from the bottom. (3mks)

8. Given that A = $\begin{pmatrix} 2 & 3 \\ 4 & 4 \end{pmatrix}$ B = $\begin{pmatrix} x & 1 \\ 2 & 3 \end{pmatrix}$ and that AB is a singular matrix. Find the value of x. (3mks)

9. Make S the subject of the formula. (3mks)

$$W = 3\sqrt{\frac{s+t}{S}}$$

10. A varies partly as the square of R and partly as a constant. When A = 23, R= 3. When A=55, R=5. Find A when R=7. (3mks)

11. Solve the simultaneous equations: (4mks)

$2x - y = 3$

$x^2 - xy = -4$

12. The cash price of a gas cooker is Ksh. 30000. A customer brought a cooker on hire purchase terms by paying a deposit of ksh 15000 followed by 18 equal monthly installments of ksh 1000 each annual interest, compound quarterly, was charged on the balance for a period of 18 months. Determine the rate of interest per annum. (3mks)

13. The size of an interior angle of a regular polygon is $3x^o$ while exterior is $(x -20)^o$. Find the number of sides of the polygon. (3mks)

14. Find x if $\cos x = \frac{\sqrt{3}}{2}$ for $0 \leq x \leq 180^o$. (2mks)

15. The rate of the length corresponding sides of two similar tanks is $3^{-}5$. the volume of the smaller tank is $8.1m^3$.Calculate the volume of the large tank. (2mks)

16. Given that log 2 = 0.3010 and log3 = 0.4771 solve log(5) (3mks)

SECTION B.

17. In a certain year income tax for all the income earned was charged at the rate shown below.

Monthly taxable pay In kshs	**rate of tax % in each**
1-9680	10%
9681-18800	15%
18801-27920	20%
27921-37040	25%
Excess over 37040	30%

Mr. Man earned a basic salary of kshs. 25000 and a house allowance of kshs. 10000 per month. He claimed a tax relief of shs1056 per month. She had a life insurance policy and she claimed the maximum relief of Kshs. 3000. Calculate:

a) Net tax (7mks)

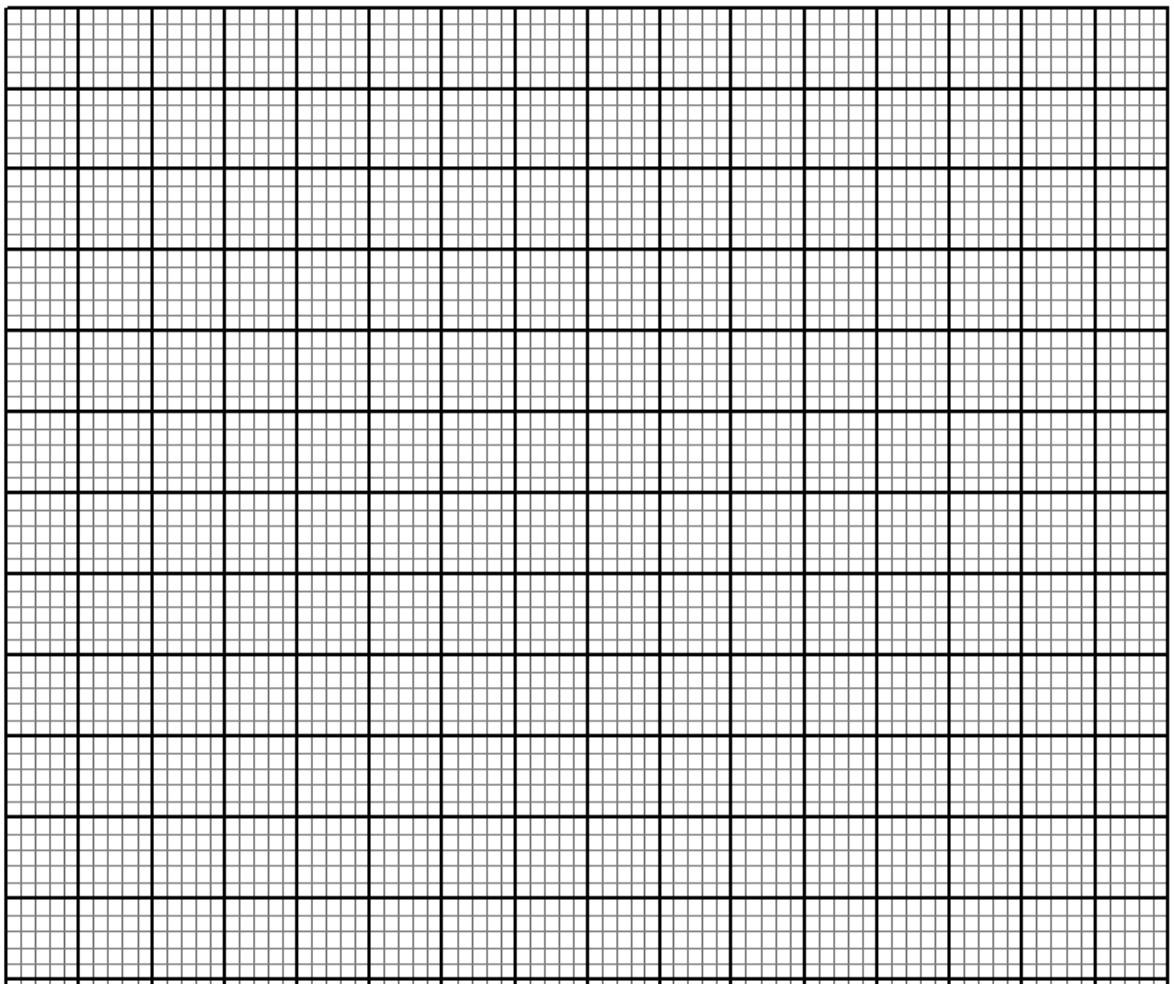
b) Other than tax, the following deductions are made:
   i. A service charge of sh. 100
   ii. Health insurance fund shs. 320
   iii. A cooperative loan of sh 3200
   iv. Burial bonovelent fund of ksh 200.
   v. Risk fund sh 100

   Calculate the net pay. (3mks)

18. Complete the table below for y = sin x and y=2cos x in the range $0 \leq x \leq 360^{o}$. (2mks)

x^{o}	0	30	60	90	120	150	180	210	240	270	300	330	360
Sin x	0.00		0.87	1.00		0.50		-0.5	-08.7		-0.87	-0.50	0.00
2 cos x		1.73	1.00	0.00		-1.73	-2.00			0.0	-1.73	1.73	2.00

a) On the grid provided, plot on the same axes the graphs of y=sinx and y = 2 cos x. (4mks)



b) Use your graph above to:

i. Determine the value of $\cos 72^{o}$. (1mk)

ii. Determine the value of $\cos 48^{o}$. (1mk)

iii. Determine the angle whose sin is 0.26. (1mk)

iv. Determine the value of x for which $\sin x = 2 \cos x$. (1mk)

19. Construct triangle ABC sides AB=8cm BC= 6cm and $< ABC=90^{o}$. (3mks)

ii) Inscribe a circle and measure its radius. (4mks)

iii) Calculate the area inside the triangle but not part of the circle. (3mks)

20. Three quantities X, Y and Z are such that x varies directly as the square root of y and inversely as the fourth root of Z when x=64, Y=16, Z=625.

a) Determine the equation connecting X, Y and Z. (4mks)

b) Find the value of Z when y=36 and x=160. (2mks)

c) Find the percentage change in x when Y is increased by 44%. (2mks)

21. The first, fifth and seventh terms of an A.P corresponds to the first three consecutive terms of a decreasing G.P. the first term of each progression is 64, the common difference if the A.P is d and the common ratio of the G.P is r.

a) Write two equations involving d and r. (2mks)

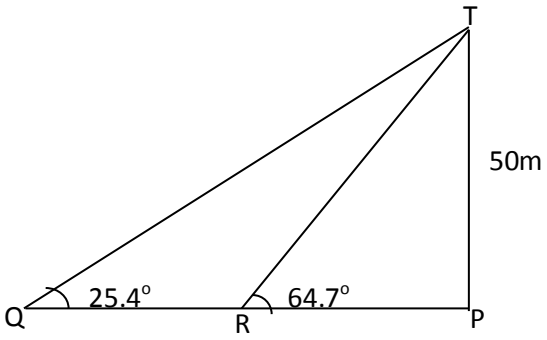
ii) Find the value of d and r. (4mks)

b) Find the values of the first 10 terms of:

i) The A.P (2mks)

ii) The G.P (2mks)

22. The figure below shows the position of a boat Q which is observed sailing directly towards the pillar P at the base of a vertical cliff PT. the angle of elevation of the top of the cliff from Q is 25.4^{o}. After 14 seconds the boat is at R and the angle of elevation of Y is now 64.7^{o}.



If the cliff is 50m high, calculate:

i. The distance PQ. (2mks)

ii. The distance QR (4mks)

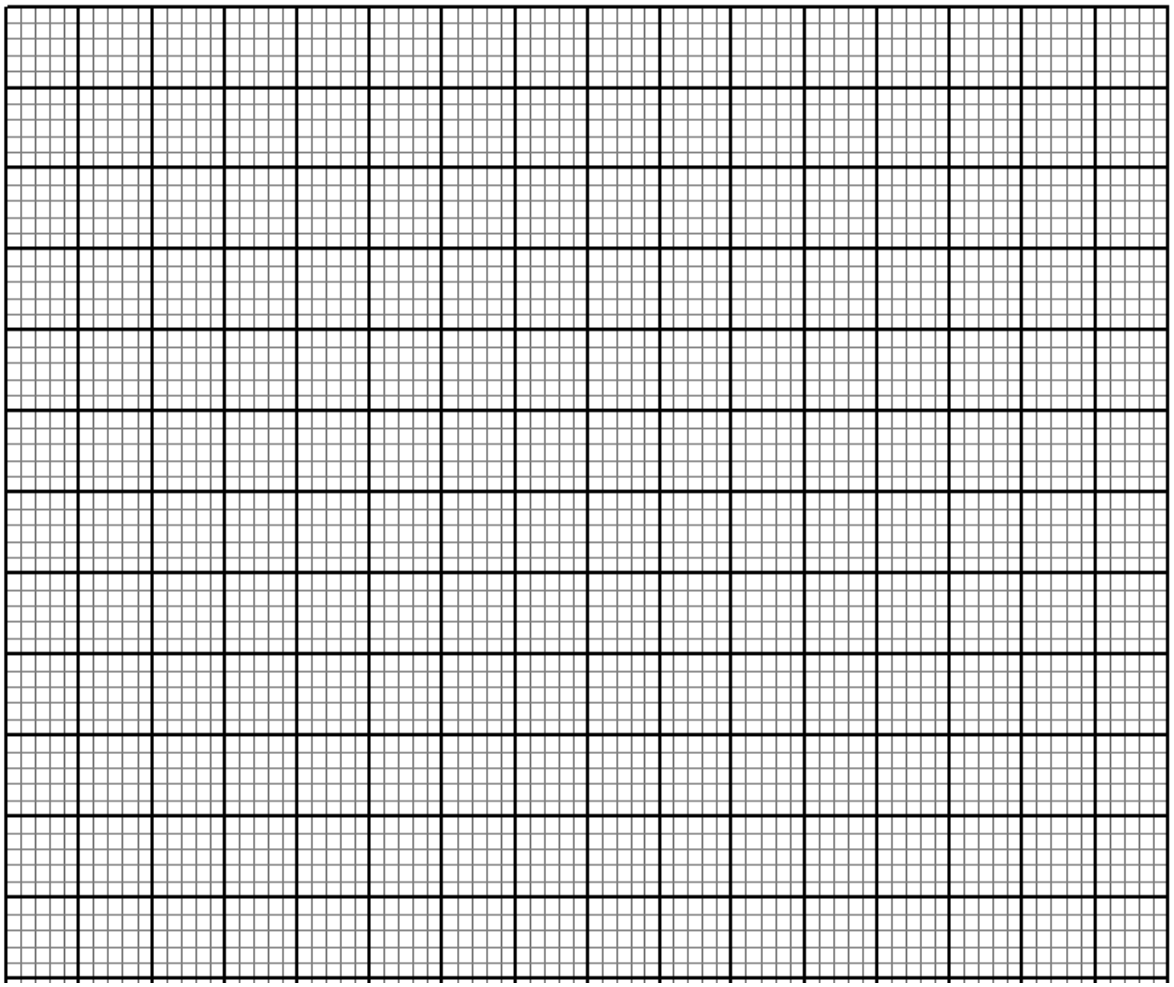
iii. The speed of a boat in km/h.

23. Complete the table below for the equation $y = x^2 - 4x + 2$ (2mks)

X	0	1	2	3	4	5
Y						

b) On the grid provided draw the graph:

$y = x^2 - 4x + 2$ for $0 \leq x \leq 5$.



Use 2cm to represent 1 unit of the x axis and 1 cm to represent 1 unit on the y axis. (3mks)

c) Use the graph to solve the equation. (2mks)

$x^2 - 4x + 2 = 0$

d) By drawing a suitable line, use the graph in (b) to solve the equation. (3mks)

$x^2 - 5x + 3 = 0$

24. Mbaka bought some plots at kshs 400,000 each. The value of each plot appreciated at the rate of 10% per annum.

c) Calculate the value of a plot after 2 years. (2mks)

d) After some time t, the value of the plot was ksh 558,400. Find t, to the nearest month. (4mks)

e) Mbaka sold all the plots he had bought after 4 years for kshs. 2,298,200. Find the percentage profit Mbaka made correct to 2 d.p. (4mks)

MTIHANI WA MUHULA WA PILI-2023 **KISWAHILI-FASIHI**

KARATASI YA 3

KIDATO CHA TATU **AGOSTI,2023** **MUDA:2 1/2**

JINA…….NAMBARI…….

DARASA……SAHIHI YA MTAHINIWA……..TAREHE…….

MAAGIZO;

Jibu maswali mannne

Kila swali ni alama 20

Swali la kwanza ni la lazima

Maswali hayo mengine yatoke katika sehemu hizo zingine

Mwanafunzi asijibu maswali mawili kutoka sehemu moja

Majibu yaandikwe kwa lugha ya kiswahili

SEHEMU A: TAMTHILIA

T.Arege: Bembea Ya Maisha

1a). Jadili maudhui ya utamaduni katika jamii ya Bembea ya maisha. (Al.10).

b). Fafanua sifa za mhusika Sara. (Al.10)

SEHEMU B: RIWAYA

C.Momanyi

2). Eleza namna maudhui ya ubinafsi yalivyoshughulikiwa katika riwaya hii. (Al.20).

3). Mwanao? Mimi mwanao mimi? Tangu siku ile uliyonila kivuli, mimi si mwanao tena……'

a) Weka dondoo hii katika muktadha wake (Al.4)

b).Tambua na ueleze tamadhali mbili za usemi zilizotumiwa katika dondoo hii. (Al.4)

c). Taja na ueleze sifa za msemaji. (Al.6)

d). Taja na ueleze umuhimu wa msemewa. (Al.6)

SEHEMU C: USHAIRI

4). **Soma shairi lifutalo kisha ujibu maswali yanayofuata;**

Akufaaye kwa dhiki, huyo ndo rafiki

Usije kumhiliki , wala usimdhihaki

Kummudhi sidiriki, utavunja urafiki

Akufaaye kwa dhiki, simlipe unafiki.

Anayekusaidia , shida ikikikufika,

Huyo kwa kweli tambua, ndiye wa kutegemea,

Popote atakufaa, atakuonesha njia,

Akufaaye kwa dhiki, simlipe unafiki.

Madhali ameamua, huyo mtu elewa

Muhali kukubagua, yeye ameshapania,

Anayo nzuri tabia, usimlipe udhia

Akufaaye kwa dhiki, simlipe unafiki.

Simtoe maanani , alokutoa jauani,

Kakutika kivulini, amejaliwa Imani,

Amekuvukisha mtoni, umadharau kwa nini?

Akuffaye kwa dhiki, simlipe unafiki

Wengi sana duniani, wachoyo sana baini,

Wakusaidie kwani, wewe ni wa kwao nini?

Wachache wenye Imani , hao ndio wenye thamani,

Akufaaye kwa dhiki, simlipe na unafiki.

(Riziki M. Juma , Tamthilia ya Maisha)

Maswali:

a)Fafanua bahari ya shairi hili ukizingatia :

i)Mpangilio wa vina. (Alama 4).

b)Taja aina nne za urudiaji (Alama.4)

c)Eleza matumizi ya swali la balagha katika shairi. (Alama 2).

d)Fafanua toni katika shairi hili. (Alama 2).

e)Taja nafsi nenewa katika shairi. (Alama 2).

f)Andika mifano ya tamathali za usemi zinazojitokeza katika ubeti wa nne. (Alama 4).

g)Fafanua mbinu mbili ambazo mshairi ametumia kutosheleza mahitaji ya kiarudhi. (Alama2).

5). Soma shairi lifuatalo kasha ujibu maswali.

Nikiwa na njaa nammatambara mwilini,

Nimehudumika kama hayawani,
Kupigwa na kutukanwa,
Kimya kama kupita kwa shetani,
Nafasi ya kupumzika hakuna,
Yakulala hakuna.

Yakuwaza hakuna,
Basi kwani hili kufanyika,
Nikosa gani lilotendeka,
Lilonileta adhabu hiii somalizika?

Ewe mwewe urukaye juu angani,
Wajua lililomo mwangu moyoni,
Niambie pale mipunga inapopepea,
Ikatema miale ya jua,
Mamangu bado angali amesimama akinisubiri?
Je nadhari hujitokeza usoni Ikielekea huku kizuizini?
Mpenzi mama,nitarudi nyumbani,
Nitarudi hata kama ni kifoni,
Hata kama maiti yangu imekatikakatika,
Vipande elfu,elfu kumi,

Nitarudi nyumbani.

Nikipenya kwenye ukuta huu Nikipitia mwingine kama shetani
Nitarudi mpenzi mama...
Hata kama kifoni.

Maswali

a)Lipe shairi hili kichwa mwafaka (al.1)

b)Tambua nafsi neni katika shairi hili (Al.2)

c)Eleza toni katika shairi hili (al.2)

d)Taja mambo manne ambayo mshairi analalamikia (Al.4)

e)Fafanua dhamira katika shairi hili (al2)

f)Thibitisha kuwa hili ni shairi huru (al2)

g)Taja na ufafanue sifa mbili za mshairi (al2)

h).Fafanua mbinu tatu za kimtindo zilizotumika katika ubeti wa ne. (Al.3)

i)Eleza maana ya maneno yafuatoyo kama yalivyotumiwa katika shairi hili (Al.2).

i). Hayawani

ii). Nadhari

SEHEMU D: FASIHI SIMULIZI

6). Soma kifungu kifuatacho kisha ujibu maswali.

Hapo zamani za kale paliishi sungura na ndovu.Wanyama hawa waliishi baharini. Maulana alikuwa amewatunukia mapenzi si haba. Makazi yao yalikuwa yamepambwa yakapambika. Walitegemea matunda mbalimbali yaliyokuwa baharini kama mapera, matomoko, matikitimaji na kadhalika. Siku moja usiku wa manane,maji yakaanza kupwa. Ndovu aliathirika zaidi. Alijaribu kuinama majini lakini hakuweza. Alimwita sungura amsaidie lakini sungura alikuwa ametoweka.

Ndovu aliamua kwenda kumtafuta sungura. Alimtafuta hadi msituni lakini hakumpata. Alihofia kurudi baharini na hadi wa leo yumo msituni.

Maswali

(a)Tambua utanzu na kijipera chake. (al.2)

(b)Taja fomyula zingine mbili za kutanguliza kifungu hiki. (al.2)

(c)Eleza umuhimu wa kijipera hiki. (al.5)

(d)Eleza sifa za kifungu hiki. (al.5)

(e)Eleza umuhimu wa fomyula:

(i) Kutanguliza (al.3)

(ii) Kuhitimisha (al.3)

MTIHANI WA MWISHO WA MUHULA WA PILI-2023

KIDATO CHA TATU

JINA……KIDATO……NAMBARI……
SAA: 2½

1. **UFAHAMU: (Alama 15)**

Soma kifungu kifuatacho kisha ujibu maswali yanayofuatia

Mateso ya wanawakiwa ni suala la kijamii linalofaa kutazamwa kwa darubini kali. Hata hivyo wanaoathirika zaidi ni watoto ambao bado wako katika umri unaohitaji kulelewa na kupewa mahitaji ya msingi kama mavazi, malazi, elimu na mengine anuwai. Hali ya kuachwa na wazazi imekuwa ikizikumba jamii tangu enzi za mababu na kila itokeapo, wanajamii huipokea kwa mitazamo tofautitofauti, hivyo kuwafanya wanawakiwa kuathirika sana.

Baadhi ya jamii zina imani za kijadi pamwe na mila zilizochakaa zinazozifanya kuamini kuwa baadhi ya vifo hutokana na laana. Wengine huchukulia kuwa mwendazake ameondolewa na ulozi. Imani kama hizi huifanya jamii kuwatia watoto walioachwa katika mkumbo ule ule, hivyo kuwaangalia kwa macho yasiyo ya kawaida. Hili husababisha dhana gande. Hali hii husababisha kuwachukulia watoto kama wanaotoka katika kizazi kilicholaaniwa. Jamii basi hukosa kuwapa watoto hawa stahiki yao. Hata wanapojitahidi kuiwania nafasi yao, waliowazunguka huwavunja mioyo. Jitihada zao huishia kuwa si chochote kwa kuwa jamii inawatazama kama waliolaaniwa.

Punde baada ya mzazi mmoja au wote wawili waendapo wasikorudi, inatarajiwa kwamba aliyeachiwa mtoto, awe mzazi wake, mwanafamilia au jirani awajibike na kumtunza mwanamkiwa. Kunao kadha wa kadha wanaowajibika – ninawavulia kofia. Hata hivyo wengi hutelekeza jukumu hili walilopewa na Muumba. Si ajabu basi kuona kuwa idadi ya watoto wanaozurura mitaani inazidi kuongezeka kila uchao. Ukichunguza utakuta kuwa wengi wa watoto hawa ni waliopotelewa na wazazi wao. Inakera zaidi kugundua kuwa baadhi ya watoto hawa wana mzazi mmoja. Kwamba mke au mume wa mtu ameaga, au iwe kwamba mzazi mmoja alimzaa mtoto na kumwachia mwenzake mzigo wa ulezi, aliyeachiwa ana jukumu la kumpa mwanawe mahitaji ya msingi. Machoni pa Jalali, kila anayeupuuza wajibu huu ana hukumu yake siku ya kiama!

Ni haki ya kila mtoto kupata elimu. Katika katiba ya Kenya mathalan, elimu ya msingi, yaani kuanzia shule ya chekechea had kidato cha nne ni ya lazima. Tangu hapo hata hivyo,

jamii zimekuwa zikiwanyima wanawakiwa wengi elimu. Kwamba kunao wachache wanaowaelimisha baadhi ya wanawakiwa, ni kweli. Hata hivyo, wengi hukosa hata wa kuwapeleka katika shule ya chekechea, hivyo kuishia kutojua hata kuandika majina yao. Mfikirie mtu katika karne ya 21, asiyejua kusoma wala kuandika! Nani ajuaye, huenda huyo mwanamkiwa asiyepelekwa shuleni ndiye angalikuwa profesa, daktari, mwalimu, rubani au msomi mtajika na mtaalamu wa uwanja muhimu katika jamii!

Kila mtoto ana haki ya kulelewa hadi kufikia utu uzima kabla ya kupewa majukumu mazito. Katika katiba ya Kenya, utu uzima, ulio umri wa kuanza kufanya kazi huanzia miaka 18. Wanaohakikisha watoto hawa wametimiza utu uzima kabla ya kufanyishwa gange ngumu wanafaa pongezi. Hata hivyo wanawakiwa wamekuwa wakitumiwa na wengi kama punda wa huduma. Wanaaila wengine huwachukua wanawakiwa kwa machozi mengi wazazi wao waagapo nakuapa kuwahifadhi na kuwatunza wana wale wa ndugu zao, kumbe ni machozi ya simba kumlilia swara! Hata kabla ya mwili wa mzazi mhusika kuliwa na viwavi, mateso kwa mtoto yule huanza, akawa ndiye afanyaye kazi zote ngumu. Utakuta watoto wao wamekaa kama sultan bin jerehe huku mwanamkiwa yule akiwapikia, kuwafulia nguo, kudeki, karibu hata awaoshe miili! Kazi kama zile za shokoa huwa za sulubu na aghalabu husindikizwa kwa matusi yasiyoandikika.

Baadhi ya waja walionyimwa huruma huwahadaa wanawakiwa na kuwapeleka ng'ambo wakitumia vyambo, kuwa wakifika kule watapata kazi za kifahari. Maskini wale hushia kushikwa shokoa, wakawa watumwa katika nyumba za waajiri wao, bila namna ya kujinasua. Wengine hushia kutumiwa kama watumwa wa 'kimapenzi' katika madanguro, miili yao ikawa ya kuuziwa makahaba waroho wasiojali utu. Kujinasua kule huwa sawa na kujitahidi kuokoa ukuni uliokwishageuka jivu, maadamu wanawakiwa aghalabu hukosa watu wenye mioyo ya huruma ya kuwashughulikia. Wengi huitumia methali 'mwana wa ndugu kirugu mjukuu mwanangwa' kuwapuuzilia mbali wanawakiwa ambao hukimbiliwa tu wabinafsi hawa wanapofaidika wenyewe.

Maswali

a) Ipe taarifa hii anwani mwafaka. **(alama 1)**

_____

_____

b) Eleza dhana ya mwanamkiwa kwa mujibu wa kifungu. **(alama 2)**

_____

_____

_____

_____

c) Eleza imani za kijadi kuhusiana na wanawakiwa. **(alama 2)**

_____

_____

_____

_____

d) Jadili masaibu yanayowakumba wanawakiwa. **(alama 4)**

_____

_____

_____

_____

_____

e) Eleza haki mbili za kikatiba zilizokiukwa kuhusiana na wanawakiwa. **(alama 4)**

_____

_____

_____

_____

_____

f) Eleza maana ya msamiati ufuatao kulingana na kifungu. **(alama 2)**

i) Inakera

_____

_____

ii) Majukumu

_____

_____

2. **UFUPISHO: (Alama 15)**

<u>Soma kifungu kifuatacho kisha ujibu maswali</u>

Runinga kama kifaa kingine chochote cha mawasiliano kina manufaa yake. Kwanza kabisa, ni nyenzo mwafaka ya kufundishia. Vipindi vinavyopeperushwa katika runinga huwa na mafunzo kemkemu kwa mtu wa kila rika. Halikadhalika, runinga huweza kuleta vipindi ambavyo huwafahamisha watu mambo yanayoendelea katika mazingira yao na duniani. Aidha, runinga ikitumika pamoja na michezo ya video huauni katika ukuzaji na ustawishaji wa stadi ya kujifundisha au kujielimisha. Michezo ya video, hasa ya kielimu, huwafanya watu kujenga umakini pamoja na kuchua misuli ya ubongo na kuwafanya watu kuwa macho wanapofanya kazi.

Fauka ya hayo, televisheni ni chemchemi bora ya kutumbuiza na kuchangamsha. Hakuna mtu asiyependa kuchangamshwa. Televisheni ni mojawapo ya vyombo mwafaka vya kutekeleza hayo kutokana na vipindi vyake. Uburudishaji huu huwa ni liwazo kutokana na shinikizo na migogoro tunayokabiliana nayo kila siku. Uburudishaji huu hupatikana kwa urahisi majumbani mwetu.

Vivyo hivyo, runinga hutumika kama nyenzo ya kuendeleza utamaduni, kaida na amali za jamii. Vingi vya vipindi vya runinga huwa ni kioo ambacho huakisi mikakati na amali za jamii.

Kwa upande mwingine, hakuna kizuri kisichokuwa na dosari. Licha ya manufaa yake, televisheni imedhihirika kuwa na udhaifu wake. Kwanza, baadhi ya vipindi vya runinga na video hujumuisha ujumbe usio na maadili, kama vile matumizi ya nguvu za mabavu, ngono za kiholela, lugha isiyo ya adabu, ubaya wa kimavazi na maonevu ya rangi, dini, jinsia, kabila na utamaduni. Si ajabu kuwa baadhi ya vijana wetu wanaiga baadhi ya mambo haya. Vijana wetu siku hizi wameingilia ulevi wa pombe na afyuni, ngono za mapema kabla ya ndoa na mavazi yanaowaacha takribani uchi wa mnyama. Wengi wamekopa na kuyaiga haya kutoka katika runinga. Ukiwauliza wafanyacho, watakujibu kuwa ni ustaarabu kwani wameupata katika runinga.

Matumizi ya runinga na michezo ya video yasiyodhibitiwa huweza kuwa kikwazo cha mawasiliano bora miongoni mwa familia. Matumizi kama haya huwapa wanafamilia fursa ya kujitenga. Imedhihirika kuwa runinga haichangii kujenga uhusiano bora wa kijamii. Ukilinganisha na vyombo vingine vya burudani ambavyo hutoa nafasi ya watu kutangamana na kujenga uhusiano bora, televisheni haichangii haya. Badala yake, tajriba ya televisheni huwa ya

kibinafsi. Hali hii inapotokea katika kiwango cha familia, televisheni inaweza kutenganisha wazazi na watoto wao.

Halikadhalika, runinga na video aghalabu hueneza maadili yasiyofaa. Mathalani, baadhi ya vipindi vya televisheni huendeleza hulka ya kuhadaa, ngono za kiholela, kuvunjika kwa ndoa, n.k. Hulka hizi zisizoendeleza maadili ya kijamii huchukuliwa kama zinazofaa na zinazofuatwa na waliostaarabika. Huu ni upotovu.

Isitoshe, baadhi ya matangazo huhimiza matumizi ya dawa za kulevya kama tembo na sigara. Vitu hivi vinapotangazwa, hupambwa kwa hila na udanganyifu mwingi ambao huwavutia vijana na watoto wengi. Si ajabu mtu anapouliza wanaotumia vileo hivi walivyoanza, watajibu kutokana na athari za matangazo katika runinga na vyombo vingine.

Utafiti umeonyesha kuwa vipindi vya runinga na video ni chanzo cha matumizi ya nguvu za mabavu miongoni mwa wanafunzi. Wazazi wengi huchukulia vibonzo katika televisheni kuwa vinalenga kuburudisha tu na havina ubaya wowote. Lakini ukweli ni kuwa vipindi vingi vya vibonzo hushirikisha matumizi ya hila na nguvu za mabavu. Haya huibusha hamu ya vijana na watoto huyaiga.

Kwa hivyo, ni muhimu wazazi na jamii kutambua madhara ya televisheni. Utambuzi huu utawafanya wawaelekeze vijana na watoto jinsi ya kutumia televisheni na video ili kuepukana na madhara yake.

a) Fupisha aya tatu za kwanza za (maneno 70 – 75) (alama 7, 2 za utiririko)

Matayarisho

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Jibu

b) Eleza udhaifu wa runinga na video. (maneno 50 – 51) (alama 5, 1 ya utiririko)

Matayarisho

Jibu

Matumizi ya lugha (al. 40)

1.Andika sauti zenye sifa zifuatazo. (AL. 2)

i.Sauti ya kaakaa laini

ii. Kikwamizo cha ufizi

2.Tofautisha maana ya sentensi zifuatazo. (AL .2)

i. maji yote yamemwagika

ii. Maji yoyote yatamfaa mzee

3. Unda nomino kutokana na vitenzi vifuatavyo . (AL.2)

i.Lima

ii.tuma

4. Tunga sentensi mbili kuonyesha maana tofauti za neno jua. (AL. 2)

5.Andika ukubwa wa : (AL.2)

i. Mwizi aliiba kikapu na ng'ombe

6. kanusha sentensi ifuatayo (AL.2)

i. Mkiondoka mapema mtafika kwa wakati .

7.Yakinisha kwa umoja. (AL.2)

i.Kamba zizisingekatika zisingepotea.

8.Ainisha vielezi katika sentensi ifuatayo. (AL.2)

i.Wamesoma kitabu hicho mara nyingi darasani.

9.Andika aina mbili za silabi na utolee mfano. (AL.2)

10. Changanua sentensi ifuatayo kwa njia ya matawi. (AL.4)

i. Wazazi wameenda sokoni.

11. Tambua kiima na kiarifa katika sentensi hii . (AL.4)

i. Gari lake linatoa moshi mwingi.

12.Tambua matumizi ya - ni – katika sentensi hizi. (AL.4)

i. Ameenda ibadani.

ii. Mwanafunzi ni mtukutu.

13.Onyesha virai katika sentensi ifuatayo na ueleze ni vya aina gani. (AL.2)

i.Wanafunzi wanapenda kusoma.

14.Ainisha mofimu katika neno hili. (AL.3)

i.Walimchezea

15.Eleza maana ya kishazi. (AL.2)

16.Andika katika usemi wa taarifa. (AL.3)

i. “Wachezaji wa michezo ya raga hufanya mazoezi kila jioni “. Juma aliwaambia watoto.

ISIMU JAMII (al.10)

Taja na ueleze sababu za vijana kutumia lugha ya sheng’.

Cheti cha Kuhitimu Kisomo cha Sekondari

MTIHANI WA MUHULA WA PILI - 2023

102/1 Kiswahili – Insha Karatasi ya 1

KIDATO CHA TATU JULAI/AGOSTI, 2023 Muda: Saa 1 ¾

Jina: …… Nambari: ……

Mkondo: …… Sahihi ya Mtahiniwa: ……..…….. Tarehe ……

MAAGIZO

a) *Andika jina lako na nambari ya usajili kwenye nafasi ulizoachiwa hapo juu.*

b) *Tia sahihi yako kisha uandike tarehe ya mtihani katika nafasi ulizoachiwa hapo juu.*

c) *Andika insha* ***mbili****. Insha ya kwanza ni ya* ***lazima.***

d) *Kisha chagua insha nyingine moja kati ya hizo tatu zilizobakia.*

e) *Kila insha isipungue maneno* ***400****.*

f) *Kila insha ina alama* ***20.***

g) *Kila insha lazima iandikwe kwa lugha ya* ***Kiswahili.***

h) *Insha zote sharti ziandikwe katika nafasi ulizoachiwa kwenye kijitabu hiki cha maswali.*

i) *Karatasi hii ina kurasa 2 zilizopigwa chapa.*

j) *Watahiniwa ni lazima wahakikishe kwamba kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.*

Kwa matumizi ya mtahini pekee

SWALI	UPEO	ALAMA
1	20	
	20	
JUMLA	40	

1. Wewe ni katibu wa jopokazi lililoteuliwa na Waziri wa Elimu kuchunguza njia mbalimbali za udanganyifu katika mitihani ya kitaifa. Andika **kumbukumbu** za mkutano uliofanyika kuwasilisha uchunguzi huo.

2. Serikali ndiyo ya kulaumiwa kutokana na kupanda kwa gharama ya maisha nchini Kenya. Jadili.

3. Tunga kisa kitakachodhihirisha matumizi ya methali ifuatayo:
   Jifya moja haliinjiki chungu

4. Tunga kisa kitakachokamilika kwa maneno yafuatayo:
   Kweli nimetambua kuwa, familia ni nguzo muhimu katika ujenzi wa jamii.

NAME ……ADM NO……CLASS……..

312/2

GEOGRAPHY PAPER 2

FORM 3

TIME: 2 ¾ HOURS

END OF TERM TWO EXAM-2023

FORM THREE

Kenya Certificate of Secondary Education. (K.C.S.E)

INSTRUCTIONS TO CANDIDATES

- ***Answer all questions***

1. a.i) Differentiate between forestry and forest. (2mks)

ii) Name three indigenous soft wood species in Kenya. (3mks)

b .i) Explain four importance of forests and forest products in Kenya. (8mks)

ii) Explain four problems facing forests in Kenya. (8mks)

iii) State four measures taken to manage and conserve forests in Kenya. (4mks)

2. Use table below to answer the following questions: Transport value in Ksh. Million

Year	2009	2010	2011	2012
Road	21,500	25,600	36,200	38299
Air	20,000	23,100	27,500	35,000
Railway	10,500	16,200	22,130	24,600

a.i) Calculate the total transport for the year 2012. (2mks)

ii) Draw a comparative bar graph for the Road, Air and Railway transport between the years 2009 – 2012. (6mks)

b.i) what are advantages of using a comparative bar graph? (4mks)

ii) Explain three challenges facing internet services in Kenya. (6mks)

c. Students of Star boys went for a field study of a forest near their school.

i. State three methods they used to collect data. (3mks)

ii. Mention two objectives of their study. (2mks)

iii) List three methods they used to record their data. (3mks)

3.a) Mention the types of minerals mined in the following areas. (3mks)

i. Mwadui

ii. Kwale

iii. Kilembe

b.i) Identify three Middle East countries that produce oil. (3mks)

ii) Mention three conditions for the occurrence of petroleum. (3mks)

iii) Explain four benefits of petroleum to the economics of the middle East countries. (8mks)

c.i) Students of Mogotio boys went for field study of rocks near their school. Give reasons why they carried the following instruments:

1. A jembe

2. A bag

3. Hammer

ii. Mention how they prepared for the field study. (5mks)

4.a.i) Define the following terms; (3mks)

- Afforestation

- Reforestation

- Agroforestry

ii) Explain four factors that have favoured forestry in Canada. (8mks)

b.i) Compare soft wood forests in Kenya and Canada. (6mks)

ii. State four importance of forest exploitation in Canada.

iii) State four problems facing soft wood forests in Canada. (4mks)

END TERM 2 2023

FROM THEE GEOGRAPHY

PAPER 1

TIME: 2HRS 45 MIN

NAME_____CLASS_____ADM_____

Instructions

- ✓ Answer **all** questions in this section A
- ✓ Answer question **6** and any other **two** questions in section B

SECTION A

1. a) What is the relationship between Geography and Mathematics (2 mks)
   b) State **three** reasons why it is important to study Geography (3 mks)

2. a) Describe the solar system (2 mks)
   b) The local time at town x 60^0W is 11.30 a.m. What is the time in Nairobi 37^0E (3 mks)

3. a) Name the **two** major types of earth movements that occur within the earth's crust (2 mks)
   b) State **three** evidences supporting the theory of continental drift (3 mks)

4. a) What is an earthquake? (1 mk)
   b) Identify the scale used to measure
      i) The intensity of the earthquake (1 mk)
      ii) The magnitude of the earthquake (1 mk)
      iii) Give **two** negative effects of earthquake (2 mks)

5. a) What is hydrological cycle (2 mks)
   b) Give **three** depositional features in the old stage of the river (3 mks

SECTION B

6. Study the map of Kisumu East (1:50,000) Kenya sheet 116/2 provided and answer the following questions.

(a). i) What type of map is Kisumu East. (1mk)

ii) Give three methods of representing relief used in the map. (3mks)

iii) Identify four physical features shown on the map. (4mks)

(b). i) Give the four figure grid reference of the agricultural research station. (1mk)

ii) Measure the length of road B2/1 from Kiboswa to the junction at Mambo Leo market. (Give your answer in kilometers). (2mks)

(c). Citing evidence from the map, identify four social services of Kisumu East. (8mks)

(d). Describe the drainage of the area covered by the map. (6mks)

7a) i) What is the difference between weathering and mass wasting? (2 mks)

ii) Apart from plants give three other factors that influence the rate of weathering (3 mks)

iii) Explain **two** ways in which plants cause weathering (4 mks)

b)i) List **two** types of mass wasting other than soil creep (2 mks)

ii) Explain **three** factors that cause soil creep (6 mks)

c) Explain **four** effects of mass wasting on the environment (8 mks)

8. (a) (i)Name three types of hot desert landscape. (3mks)

ii) State two reasons why wind erosion is very effective in hot deserts. (2 mks)

b i) Apart from Yardangs name three features that results from wind action in deserts. (3mks)

ii) Using well labelled diagrams, describe how Yardangs are formed. (7mks)

b) Explain how the following processes of wind erosion occur in the desert areas.

i)Saltation. (2mks)

ii)Surface creep. (2mks)

c) You intend to carry out a field study in an arid area near your school.

i) State two reasons for carrying out a pre-visit. (2mks)

ii) State four positive effects of desert features to man that you are likely to identify. (4 mks)

9. (a) (i) Differentiate between a spring and a well. (2 mks)

ii) State four conditions favoring formation of artesian well. (4 mks)

b). (i) What is a Karst scenery? (2mks)

(ii) Name five features formed on the surface in a Karst area. (5 marks)

c). With the aid of a well labeled diagram describe how a limestone pillar is formed. (6mks)

d) Explain three significance of Karst scenery to human economic activities. (6mks)

10a) i) What are tides? (2 mks)

ii) Give **three** causes of ocean currents (3 mks)

iii) Name the **three** ocean currents along the Western Coast of Africa (3 mks)

b) i) State **three** characteristics of submerged lowland coasts (3 mks)

ii) Explain **three** factors that determine the rate of coastal erosion (6 mks)

c) With the aid to labelled diagrams, describe the process through which a stack is formed. (8mks)

NAME: ……. ADMNO:

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CLASS: …… CANDIDATE'S SIGN:

……..…..……..

DATE:

……..……..

443/1
AGRICULTURE
PAPER 1
JULY, 2023,
TIME: 2 HOURS.
FORM THREE

(Kenya Certificate of Secondary Education)
AGRICULTURE
PAPER 1
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- *Write your name and index number in the spaces provided above.*
- *Sign and write the date of examination in the spaces provided above.*
- *This paper consists of three sections A, B and C.*
- *Answer all the questions in section A and B.*
- *Answer any two questions in section C.*
- *All answers should be written in the spaces provided.*
- *This paper consists of 12 printed pages.*
- *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
- *Candidates should answer all the questions in English.*

For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-18	30	
B	19-22	20	
C		20	
		20	
	TOTAL SCORE	**90**	

SECTION A: (30 MARKS)

1. Outline three reasons for treating water for use in the farm. (1½mks)

……
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……

2. Give four advantages of carrying out minimum tillage. (2mks)

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……

3. State four disadvantages of communal land tenure system. (2mks)

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4. Name any four surface sources of water in the farm. (2mks)

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……

5. State four important reasons of keeping farm records in the farm. (2mks)

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……

6. Give two ways in which organic mulch helps in the control of soil erosion. (1mk)

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……

7. Name any two examples of farm structures that are used in crop production. (1mk)

……
……
……

8. Give two reasons for siting a nursery bed at a well sheltered place. (1mk)

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……

9. State four reasons as to why burning is not recommended in land. (2mks)

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10. Give four advantages of using certified seeds during planting. (2mks)

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……

11. Why is it necessary to allow freshly cut sorghum (Columbus grass) to wilt before feeding it to livestock? (1mk)

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……

12. Give two roles of nitrogen in maize production. (1mk)

……
……
……

13. Distinguish between the terms hybrid and composite as used in maize breeding. (1mk)

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……

14. Outline three important aspects of rainfall a farmer should consider when growing crops. (1½mks)

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……

15. State two harmful effects of strong wind in agricultural production. (1mk)

……
……
……

16. Give two ways in which cover crops help to conserve water in the soil. (1mk)

……
……
……

17. Give a reason for carrying out each of the following management practices on a tree nursery.

a) Pricking out. (½mk)

……
……

b) Shading. (½ mk)

……
……

18. Outline two ways of controlling damping off disease off disease of cabbages. (1mk)

……
……

19. Outline **four** indicators of well rotten compost manure. (2mks)

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20. Name four natural factors that may influence soil erosion. (2mks)

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21. What do you understand by the term opportunity cost? (1mk)

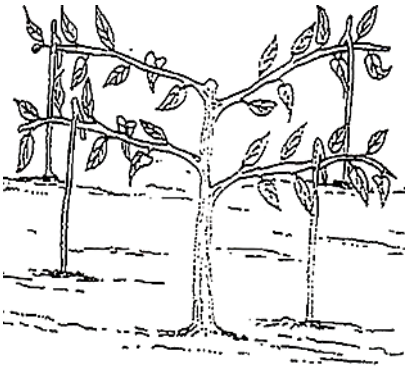
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SECTION B (20 MARKS)

Answer ALL the questions in this section in the spaces provided.

22. Identify the method of pegging tea shown in the diagrams below;-

a)



i) The pegging method is…….. (½mk)

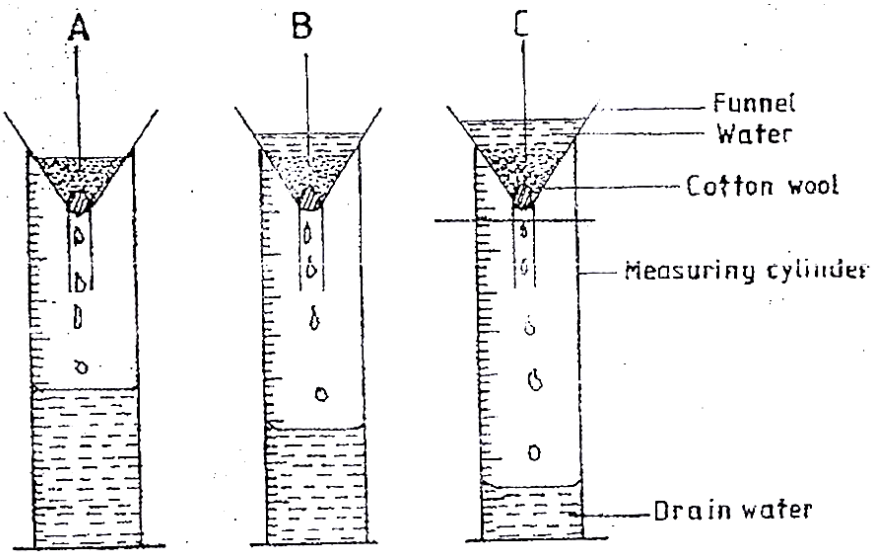


ii) The pegging method is……. (½mk)

b) Give three reasons for pruning coffee plants.
(3mks)

……
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23. The diagram below illustrates an experiment on soil. Study it carefully and answer the questions that follow.



a) State the aim of the experiment.t (1mk)

……
……

b) If the volume of water illustrated in the measuring cylinders was observed after one hour, identify the soil samples labeled A and B.

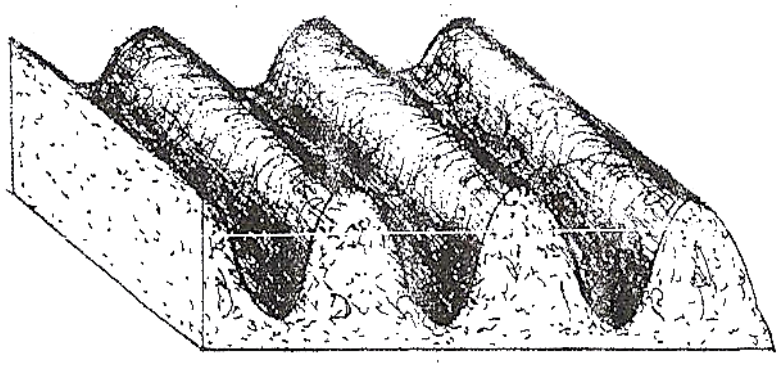
A. …… (½mk)

B. …… (½mk)

c) State two ways in which the soil structure of the soil sample labeled C above can be improved. (2mks)

……
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……

24. The diagram below illustrates a final seedbed after tertiary operation done during land preparation. Study it carefully and answer the questions that follow.



a) Name the tertiary operation carried out on the seedbed. (½mk)

……

b) Describe how the tertiary operation named in (a) above is carried out. (1½mks)

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……

c) Give two advantages of planting crops on the final seed back illustrated above. (2mks)

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……

25. What is the function of each of the following substances in the preparation of compost manure?

a) Wood ash. (1mk)

……

……

b) Top Soil.
(1mk)

……

……

c) Wooden stick. (1mk)

……

……

d) Adding manure. (1mk)

……

……

26. Name the deficient nutrient element in plants showing the following symptoms;-
a) Stunted growth, die back of plant tips, leaves roll up and chlorosis along margins of younger leaves. (½mk)

……

b) Yellowing of leaves appears first lower leaves turn brown and fall prematurely, stunted growth.
(½mk)

……

c) Leaf curling, yellowing of leaves, tips and edges of leaves are scorched and have small mottles.
(½mk)

……

d) Purpling of leaves, stunned growth, slender stalks and lateral buds remain dormant. (½mk)

……

27. a) Why is the use of the following items essential during the harvesting of tea?
i) Plucking stick.
(1mk)

……

……

ii) Woven basket.
(1mk)
……
…….

SECTION: C (4Omks)
Answer any TWO questions in this section.

28. a) Explain five advantages of vegetative propagation in crop production. (5mks)

b) Outline five benefits of organic farming. (5mks)

c) Discuss five factors to consider when choosing the type of irrigation system to use in a farm. (10mks)

29 a) Describe ten safety precautions that should be taken when using herbicides to control weeds.
(10mks)
b) Explain five biological agents of weathering. (10mks)

30. Describe tomato production under the following sub headings.
a) Nursery management practices. (6mks)

b) Land preparation. (4mks)

c) Transplanting. (7mks)

d) Harvesting. (3mks)

NAME: …….. ADMNO:

…….....

CLASS: …… CANDIDATE'S SIGN:

…….…..…….

DATE:

…….……..

443/1
AGRICULTURE
PAPER 1
JUL/AUG, 2023,
TIME: 2 HOURS.
FORM THREE

(Kenya Certificate of Secondary Education)
AGRICULTURE
PAPER 1
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- *Write your name and index number in the spaces provided above.*
- *Sign and write the date of examination in the spaces provided above.*
- *This paper consists of three sections A, B and C.*
- *Answer all the questions in section A and B.*
- *Answer any two questions in section C.*
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B	19-22	20	
C		20	
		20	
	TOTAL SCORE	**90**	

SECTION A (30 Marks)

Answer ALL the questions in this section.

1. Name **four** breeds of rabbits.

(2mks)

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2. List **four** functions of the rumen in the digestion of feed in; Ruminant animal. (2mks)

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3. State **two** reasons why drenching is not an effective method of internal parasite control. (IMC). (1mk)

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4. Give the functional difference between a cross-cut saw and a rip saw. (1mk)

……

……

5. State **two** functions of a queen in a colony. (1mk)

……

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……

6. Give **two** reasons why rabbit hutches should be raised above the ground level. (1mk)

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……

7. State **four** disadvantages of natural mating as a method of breeding in dairy cattle. (2mks)

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8. Name **four** disorders in livestock caused by the lack of mineral nutrients. (2mks)

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9. Name the type of hammer that one would require for the following operations.

(i) Striking cold chisel. (½mk)

……

(ii) Driving and removing nails in wood. (½mk)

……

(iii) Striking wooden chisels. (½mk)

……

(iv) Breaking stones for masonry work. (½mk)

……

10. State f**our** ways in which animal utilizes a production ration.

(2mks)

……

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……

11. State **four** observable features of an indigenous cattle.

(2mks)

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12. (a) Name **two** forms in which tapeworms are found in livestock. (1mk)

……

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(b) State **four** non-chemical control measures of ticks on the farm. (2mks)

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13. State **two** reasons why young rams should be docked. (1mk)

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14. State **four** ways of restraining cattle during routine management. (2mks)

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15. Give **four** features of housing that help to control livestock diseases. (2mks)

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16. State **two** functions of crop in the digestive system of chicken. (1mk)

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17. Give **four** characteristics of a good site for fish pond.

(2mks)

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……....

18. Give the meaning of the following terms used in livestock as used in livestock production. (1½mks)

……

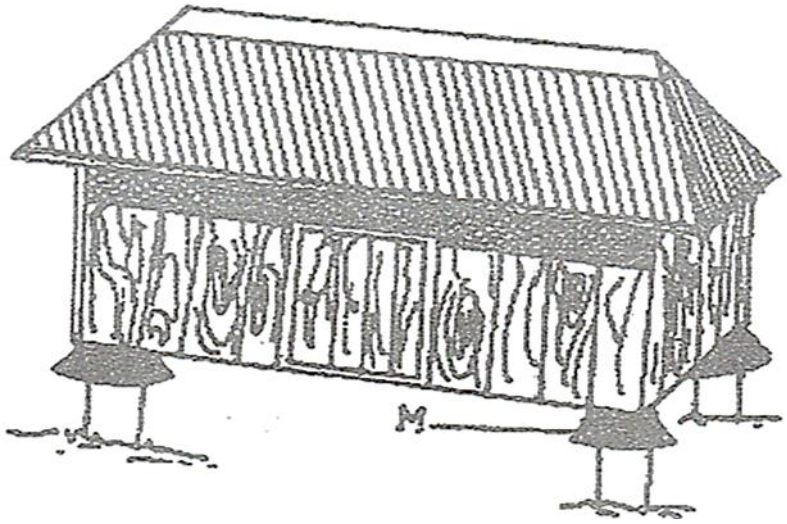
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SECTION B (20 Marks)

Answer ALL questions in this section in the spaces provided.

19. Below is a diagram of a farm structure for storing grains. Study it carefully and answer questions that follow.



(a) Identify the farm structure above. (1mk)

……

(b) State the function of the part marked **M.**

(1mk)

……

……

(c) Give **two** maintenance practical that should be carried out on the farm structure illustrated in readings for grain storage. (2mks)

……

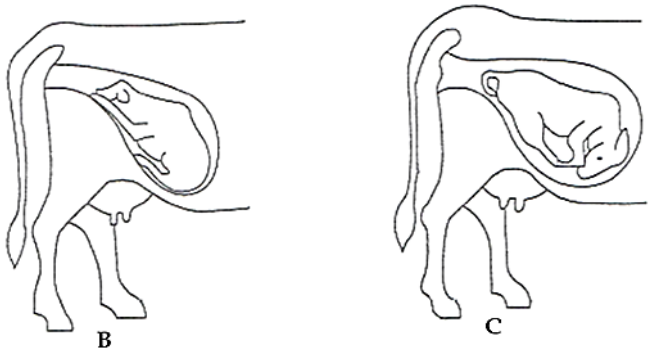
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(d) A part from the structure illustrated above, name two other structures used to store grains by NCBP. (1mk)

……

……

20. Study the illustration below and answer the questions that follow.



(a) Which diagram represent the normal presentation of calf at birth?
(1mk)

……

(b) What term is used to refer to position shown in diagram B?
(1mk)

……

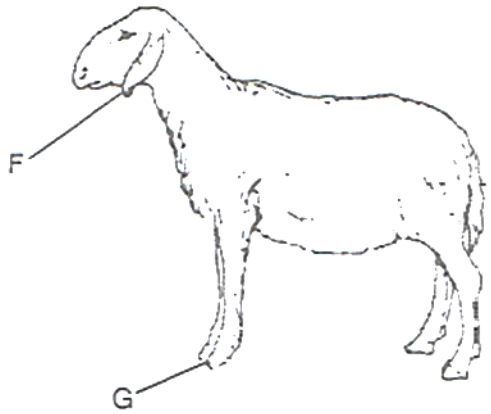
(c) State **three** signs of parturition in cattle
(3mks)

……

……

……

21. The illustration below represents a sheep with parts marked **E**, and **G**. study it and answer the questions that follow.



(i) State the operation carried out on the parts labeled **F** and **G.**

F…… (1mk)

G…… (1mk)

(ii) Name the tool used to carry out the operation on the part **G**. (1mk)

……

(iii) Give **two** reasons for each operation carried out on the part labeled.

F…… (1mk)

G…… (1mk)

22. (a) A 300kg pig ration containing 20% crude protein was to be made from wheat bran (3% crude protein) and cotton seed cake (24% crude protein). Using the peasons square method, calculate the amount of each feed stuff that is needed to prepare the ration. (5mks)

SECTION C (40 Marks)

Answer any two questions in this section.

23.(a) Discuss **eight** general methods of disease control.

(8mks)

(b) Describe the procedure of processing honey using heat method.

(7mks)

(c) Give **six** factors considered when selecting a heifer for breeding.

(5mks)

24. (a) Describe the life cycle of a two-host tick.

(5mks)

(b) State **six** functions of water in an animal body.

(6mks)

(c) Outline **five** importance of farm building.

(5mks)

(d) Give **four** signs of heat in a doe.

(4mks)

25.(a) State **four** reasons for dehorning in cattle.
(4mks)

(b) Describe the procedure of egg formation in poultry.
(10mks)

(c) Outline **six** advantages of live fences.
(6mks)

TERM TWO 2023

PHYSICS

PAPER ONE

FORM 3

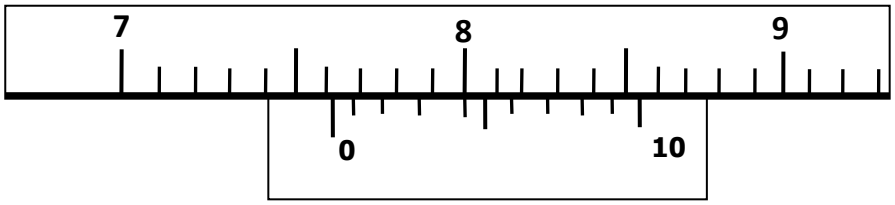
TIME: 2 hours

NAME……CLASS……..ADM……

Instruction : Answer all questions

SECTION A (25 MARKS)

1.The figure below shows a vernier calipers scale



State the correct reading of scale if the instrument has a zero-error of **-0.02cm**

(1 mark)

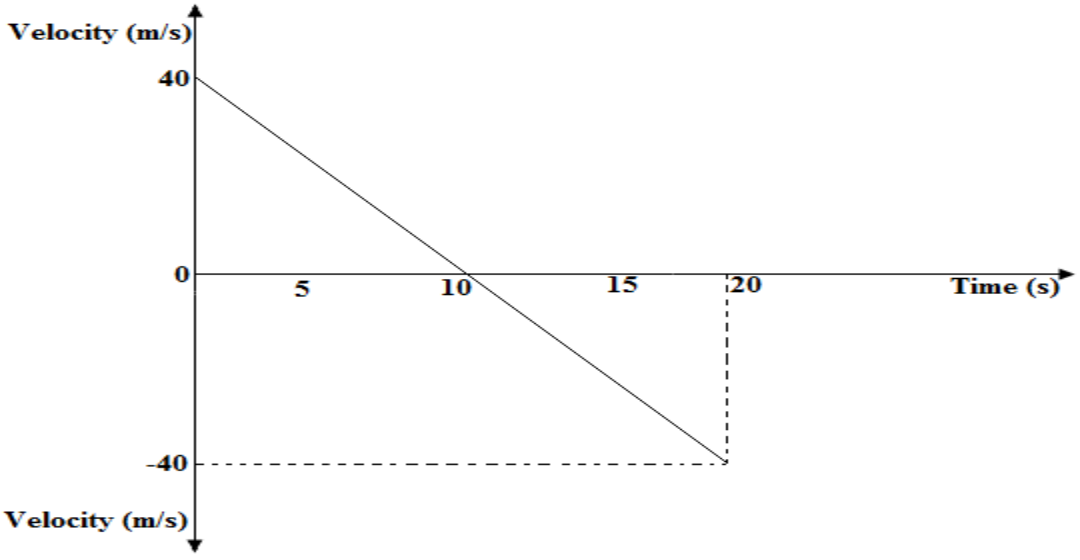
2.Apart from the diameter and length, name another factor that determines the spring constant of a spiral spring. (1mk)

3.It **is** observed that a drop of milk carefully put into a cup of water turns the water whiteafter sometime. Explain this observation

(1mark)

4.A micrometer screw gauge which had an error of +0.02mm was used to measure the diameter of a spherical marble whose diameter was 3.67mm. Determine the actual reading of the gauge.
(2 marks)

5.Figure 1 shows graph of velocity against time for a body in motion for 20 seconds. Study the graph and answer the questions that follow



Describe the motion of the object in the 20 seconds.

(2marks)

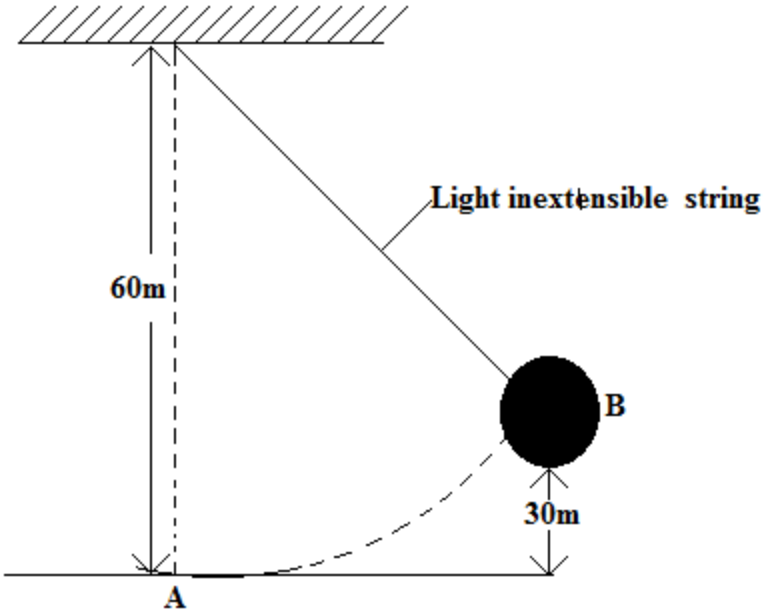
5.When a steel ball is allowed to fall freely in a viscous fluid, it is observed to attain terminal velocity after some time. State the reason why the ball attains terminal velocity

(2mark)

6 .A weightless non- uniform rod balanced by two forces of 5N and 4 N placed at either ends. The position of the centre of gravity of the rod is at 1.2cm mark..Given that the system is at equilibrium and the 5N force is acting at the 0 cm mark, determine the length of the rod

(3marks)

7.Figure 3 shows a bob of mass 100g is suspended using a string of 50cm from a support and swings through a vertical height of 30 cm as shown below:

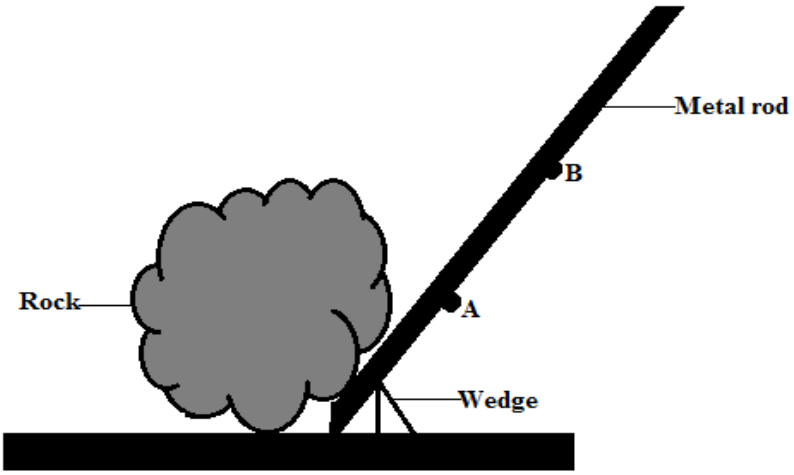


Calculate the velocity of the bob as it moves from point A to B

(3mark)

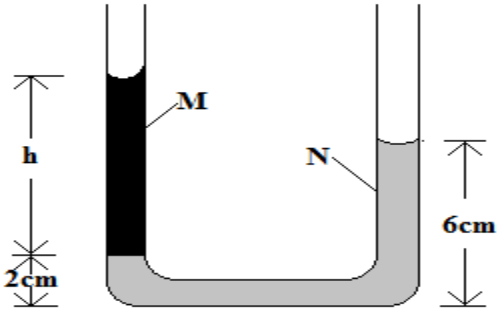
8. A highly inflated balloon bursts when transferred to a hotter environment. Explain this observation using kinetic theory of gases
(2 marks)

9. FIGURE shows a metal rod used to roll a rock. Study the diagram and answer the questions that follow



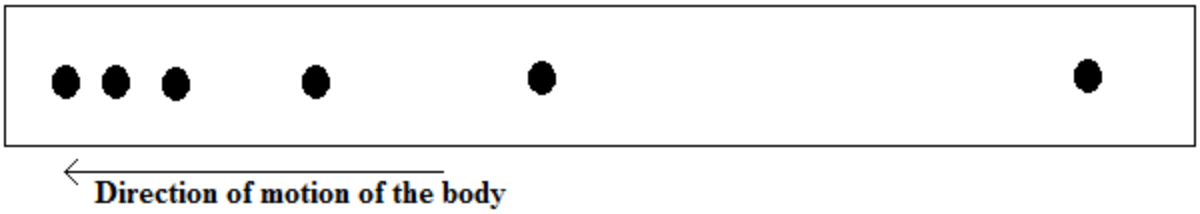
State with a reason at which point A or B on the metal rod where it is easier to roll the rock (2 marks)

10. Figure 6 shows two immiscible liquids M and N placed in a u-tube manometer. Liquid M has a density of 0.8g/cm^3 while that of N is 1.2g/cm^3. Study the diagram and answer the questions that follow



Determine the height h
(3 marks)

11. Figure 8 shows an extract from a ticker timer (not to scale) obtained from an experiment using a timer of frequency 50Hz



State whether the body is decelerating or not the acceleration of the body whose motion is represented in the tape.
(2mark)

SECTION B (55 MARKS)

12.(a) Distinguish between distance and displacement. (1 mk)

(b) Differentiate speed from velocity. (1 mk)

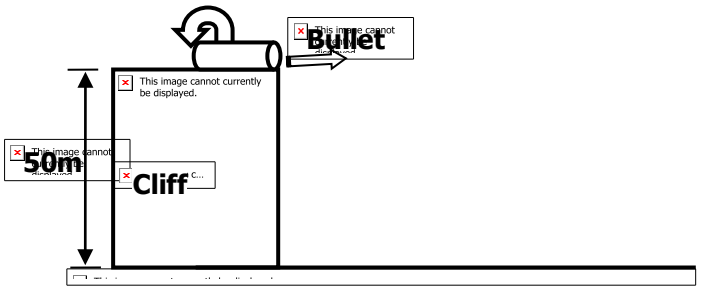
(c)A body accelerates uniformly from initial velocity**, U** to the final velocity **V**, in time **t**, the distance traveled during this time interval is **S.** If the acceleration is shown by the letter **a**, show that;

i)V= U + at (2marks)

ii)S= Ut + ½ at^2(2marks}

(iii) $V^2 = U^2 + 2aS$ (2marks)

(d)A bullet is fired horizontally at a velocity of 400m/s from a cliff which is 50m tall as shown below.



On the diagram draw the trajectory of the bullet until it comes to rest.
(1mk)

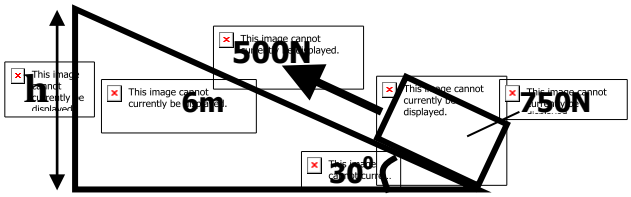
(i)Find the time taken for the bullet to hit the ground.
(2mk)

(ii)Find the range.
(2mk)

13. (a)Define the State the law of conservation of energy.
(1mark)

(b)Define the term work and state S.I unit Work
(1mark)

(c)A person pulls a box of weight **750N** up an inclined plane **6m** long using a force of **500N** as shown in figure below. Find the :



(i) The **VR**(2marks)

(ii) The height **h(2marks)**

(iii) The work done by effort.
(2marks)

(iv) The useful work done.
(2marks)

(v) The efficiency of the plane.
(3maks)

14 .(a) Explain why unboiled egg stops faster than a boiled egg when both are rolled together on a flat horizontal surface with same velocity.
(2mks)

(b)A high jumper usually lands on a thick soft mattress. Explain how the mattress helps in reducing the force of impact.
(1mark)

(c) A minibus of mass **1200kg** travelling at a constant velocity of **15m/s** collides with a stationary car of mass **600kg.** The impact takes **1.5** seconds before the two move together at a constant velocity for **25** seconds.

Calculate.

(i) The common velocity
(2mks)

(ii) Distance moved after impact
(2mks)

(iii) The impulsive force
(3marks)

(iv) The change in kinetic energy
(3mks)

15.In an experiment to estimate the diameter of an oil molecule, an oil drop of diameter **0.05 cm** spread over a circular patch whose diameter is **20cm**
Determine:

(a)The volume of the oil drop.
(2mk)

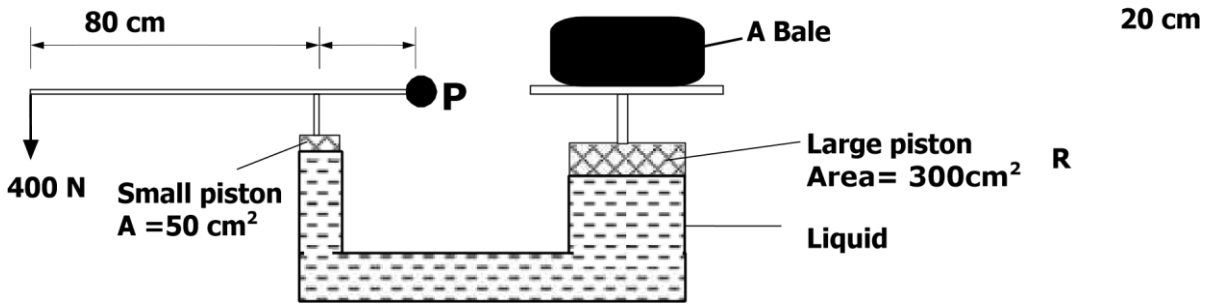
(b)The area of the patch covered by the oil
(2mk)

(c)The diameter of the patch covered by the oil.
(3mk)

(d)State any assumption made in (b) above.
(1mk)

(v) State two possible sources or errors in this experiment.
(2mks)

16.Figure shows a hydraulic press system using a lever of negligible mass on the side of a small piston pivoted at point **P**. A force of **400N** is applied at **R**.



(a)Calculate the force **F** exerted by small piston on the liquid due to the lever.
(3mk)

(b)Find the weight of the Bale supported by the large piston.
(3mk)

(c) State one properties of the liquid used as the brake fluid
(1mk)

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PHYSICS

PAPER 3

FORM THREE

JULY/AUGUST 2023

2½ HOURS

JOINT EVALUATION

END TERM TWO EXAMINATION

PHYSICS CONFIDENTIAL

Provide a student with the following apparatus:

QUESTION ONE

- ✓ 2 new size D dry cells
- ✓ 2 cell holders
- ✓ A nichrome wire mounted on a metre rule (gauge 30 μm)
- ✓ An ammeter, A(0-1A)
- ✓ A voltmeter, V(0-3V)
- ✓ A jockey J
- ✓ A switch S
- ✓ 8 connecting wires, at least two with crocodile clips on one end.

QUESTION TWO

- ✓ A rectangular glass block (6cm by 10 cm)
- ✓ A rectangular Soft board
- ✓ Four optical pins
- ✓ Two thumb pins
- ✓ A half metre rule

NAME……CLASS……ADM……

FORM THREE
HISTORY PAPER 2
END TERM 2 2023

TIME: 2HRS 30 MIN

1. State the short coming of oral traditions as a source of historical information (2 mks)
2. Identify one theory explaining the origin of man (1mk)
3. Name two species of homo sapiens (2mks)
4. Name any two centres of agriculture revolution (2mks)
5. State the two main methods of trade (2mks)
6. Give two example of regional trade (2 mks)
7. Identify two means of transport that compromised early land transport (2mks)
8. Identify the sailing ship used by the Greeks (1 mks)
9. Identify one early source of energy (1 mk)
10. Give the major limitations of using water as a source of energy (1mk)
11. List two factor for the growth of Meroe (2mks)
12. Identify one historical building in kilwa (1 mk)
13. Identify the symbol of national unity among the Shona (1mk)
14. State two sources of the principles on which the British constitution is made (2 mks)

15. Name one missionary society that cause to spread Christianity in Africa (1mk)
16. State one function of emirs in northern Nigeria (1mk)
17. Name the type of constitution used in Britain (1mk)

Section b 45 mks

Answer any three questions

18. (a) state five stages of evolution of man before homo erectus (5mks)
(b) Describe the way of life of human being during the late stone age period (10 mks)
19. (a) give three negative impacts of scientific inventions in agriculture (3 mks)
(b) Explain factors that have hindered industrialization in Africa ()
20. (a)state methods used by the British to colonies Buganda kingdom (5 mks)
(b) What benefits did the Buganda people get as a result of their collaboration (10mks)
21. (a) how did the attainment of independence of Ghana contribute to liberation of other African countries (3 mks)
(b) Describe African nationalists activities that intensified the struggle for independence in South Africa (12 mks)

Section c 30 mks

Answer any two questions

21. (a) identify the privileges enjoyed by assimilated Africans in the four communes in Senegal (5mks)
(b) Explain reasons why French policy of assimilation failed (5 mks)
23. (a) outline three features of direct rule in Zimbabwe (3mks)
(b) What were the disadvantages of indirect rule system of administration? (12 mks)
24. (a) state the terms of the Rudd concession treaty of 1883 (3 mks)
(b) State six grievances of the Ndebele and the Shona during the Chimurenga war of 1896 (12 mks)

The end

NAME……..……..CLASS……ADM……

FORM THREE
HISTORY PAPER 1
END TERM 2 2023

TIME: 2HRS 30 MIN

1. Name two southern cushiest that inhabited Kenya during the pre-colonial period
   (2mks)
2. Give one way in which iron working helped migration of Kenyan communities
   (1mk)
3. Apart from the akamba name two other communities that participated in long distance trade (2 mks)
4. Identify two benefits of the dual citizenship
   (2mks)
5. Give two characteristics of the Kenyan government
   (2 mks)
6. Outline one early means of communication used by the Kenyan communities in the pre-colonial period (1 mk)
7. Give two strategic reasons that led to occupation of Kenya by the British
   (2mks)
8. What was main recommendation of Fraser commission 1908
   (1mk)
9. Give the main reason that led to the formation of early political parties in Kenya up to 1939 (1 mks)
10. Identify the main feature of Kenyan s first independent parliament
    (1 mk)
11. What was the main reason for convening the 2nd Lancaster conference in 1962
    (1 mks)
12. Define the term democracy
    (1 mks)

13. Give two social causes of disunity in Kenya today

(1 mk)

14. Identify the most significance aspect of the Nandi social organization

(1 mk)

15. Give two reason that may lead to depreciation of freedom of expression to a Kenyan citizen (2 mks)

16. Explain two recommendations of the Littleton constitution of 1954

(2mks)

SECTION B 45 MKS

ANSWER ANY THREE QUESTION

17. (a) identify three main economic activities of the Luo during the pre-colonial Kenya

(3 mks)

(b) Describe the political organization of the Maasai in the 19th century

(12 mks)

18. (a) give the characteristics of the early political organization in Kenya

(3 mks)

(b) explain six factors which promoted African political organization in Kenya after 1945 (12 mks)

1. (a) outline the terms of Devonshire white paper

(5 mks)

(b) Describe the methods used by the colonial government to acquire labour for settlers in Kenya (5mks)

20. (a) identify five merits of democracy

(5mks)

(b) Explain five principles of democracy

(10 mks)

SECTION C 30 MKS

ANSWER ANY TWO QUESTIONS

22. (a) identify factors that should be considered while drafting the constitution of a country (3 mks)

(b) Explain six elements of a good citizen in Kenya

(12 mks)

22. (a) give ways in which education promotes national unity in Kenya

(3mks)

(b) discuss the procedure followed while solving conflicts through the mediation method (12 mks)

23. (a) what were the main objections of local native council in Kenya during the colonial period (3 mks)

(b) Describe the structure of central government in colonial Kenya

(12 mks)

Form three

19. State the short coming of oral traditions as a source of historical information

(2 mks)

20. Identify one theory explaining the origin of man

(1mk)

21. Name two species of homo sapiens

(2mks)

22. Name any two centres of agriculture revolution

(2mks)

23. State the two main methods of trade

(2mks)

24. Give two example of regional trade

(2 mks)

25. Identify two means of transport that compromised early land transport (2mks)
26. Identify the sailing ship used by the Greeks (1 mks)
27. Identify one early source of energy (1 mk)
28. Give the major limitations of using water as a source of energy (1mk)
29. List two factor for the growth of Meroe (2mks)
30. Identify one historical building in kilwa (1 mk)
31. Identify the symbol of national unity among the Shona (1mk)
32. State two sources of the principles on which the British constitution is made (2 mks)
33. Name one missionary society that cause to spread Christianity in Africa (1mk)
34. State one function of emirs in northern Nigeria (1mk)
35. Name the type of constitution used in Britain (1mk)

Section b 45 mks

Answer any three questions

36. (a) state five stages of evolution of man before homo erectus (5mks)
(b) describe the way of life of human being during the late stone age period (10 mks)

19. (a) give three negative impacts of scientific inventions in agriculture (3 mks)
(b) Explain factors that have hindered industrialization in Africa ()

20. (a)state methods used by the British to colonize Buganda kingdom (5 mks)
(b) what benefits did the Buganda people get as a result of their collaboration (10mks)

21. (a) how did the attainment of independence of Ghana contribute to liberation of other African countries (3 mks)
(b) Describe African nationalists activities that intensified the struggle for independence in south Africa (12 mks)

Section c 30 mks

Answer any two questions

23. (a) identify the privileges enjoyed by assimilated Africans in the four communes in Senegal (5mks)

(b) Explain reasons why French policy of assimilation failed (5 mks)

23. (a) outline three features of direct rule in Zimbabwe (3mks)

(b) What were the disadvantages of indirect rule system of administration? (12 mks)

24. (a) state the terms of the Rudd concession treaty of 1883 (3 mks)

(b) State six grievances of the Ndebele and the Shona during the chimurenga war of 1896 (12 mks)

The end

END OF TERM TWO 2023

FORM THREE

ENGLISH PAPER THREE

TIME : 2 HOURS 30 MINUTES

NAME: .....

ADM NO : .....

CLASS : .....

INSTRUCTIONS TO CANDIDATES

a) Write your name, admission number and class in the
spaces provided.

b) Answer all the questions given.

c) Each question must not exceed 450 words.

d) Candidates must answer the questions in English.

e) Candidates should check the question paper to
ascertain that no question is missing.

Answer all the questions

1a)Write a composition beginning with the following sentence.
"The night was different from all previous nights..."
(20 marks)

b) Write a composition explaining the importance of co-
curricular activities in achieving a wholesome education
in Kenya schools. (20 marks)

c) Despite having gained Independence, Many African nations still grapple with Neo - colonialism which adversely affects lives. Justify this assertion with illustration from Father's of Nations by John Lara

(20 marks)

ENGLISH PAPER 2

END OF TERM TWO 2023

TIME 2 HOURS 30 MINUTES

NAME..... ……

ADM NO : .....

CLASS : ……

INSTRUCTIONS TO CANDIDATES

a) Write your name, admission number and the class in the spaces provided.

b) Answer all the questions in this paper.

c) Candidates should check and ensure that no question is

missing.

COMPREHENSION (20 MARKS)

Read the following passage and then answer the questions that follows .

At the head of the court is a high seat where the judge sits. Down below is a table for officers of the court ,and to the left and to the right of the table are other seats. Some of these seats form a block that is enclosed,and they are for the jury if they is a jury. In front of the table are other seats arranged in arcs of circles, with curved tables in front of the seats, and it is there that the lawyers sit. And behind them is the dock, with a passage leading to some place that is underground, and from this place that is underground will be brought the men that are to be judged. At the back of the court there are seats rising in tiers, those on the right for Europeans, those for le left for non Europeans, according to the custom.

You may not smoke in this court , you may not whisper or speak or laugh. You must dress decently, and if you are a man , you may not wear your hat *unless such is your religion.*This is in honour of the judge and in honour of the king whose officerhe is; and in honour of the law behind the judge , and in honour of the people behind the law. When the judge enters you will stand and you will not sit till he is seated. When the judge leaves you will stand and you will not move till he has left. This honour of the judge and of the things behind the judge.

For the judge is entrusted a great duty, to judge and pronounce sentence even sentence of death. Because of their high office , judges are called Honourable, * and precede most other men* on great occasions. And they are held in great honor by men both white and black.

Because the land is a land of fear, a judge must be without fear, so that justice may be done according to the law; therefore a judge must be incorruptible.

The judge does not make the law. It is the people that make the law. Therefore, if the law is unjust , and if the judge judges according to the law, that is justice, even if it is not just.

It is the duty of the judge to do justice, but it is only that the people that can be just. Therefore, if justice be not just, that is not to be *laid at the door of the judge,*but at the door of the people, which means, at the door of the white people, for it is the white people that make the law.

In South Africa men are proud of their judges, because they are not incorruptible. Even the black men are proud of their judges, because they believe they are incorruptible. Even the black men have faith in them, though they do not always have faith in the law . In a land of fear this incorruptibility is like *a lamp set upon a stand*,giving light to that are in the house.

Questions (20 marks)

a) What factors determine where you sit near the front of the court? (2 marks)

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

b) What does the seating arrangement at the back of the court reveal about the society? (2 marks)

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

c) Certain rules must be strictly observed inside the court. What would non - observance of the rules imply?

(2 marks)

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

d) Why must a judge be fearless? (2 marks)

.....
.....

e) How has judges in South Africa earn respect and admiration? (2 marks)

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

f) Although the judge has great responsibilities and power, he has limitations. What are his limitations? (4 marks)

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

g) What does the second last paragraph reveal about the status of the black people? (2 marks)

.....
.....

h) Explain the meaning of the the following expressions as used in the Passage.

i) Unless such is your religion. (1 mark)

.....
.....

ii) and precede most other men (1 mark)

.....
.....

iii) Laid at the door of the judge. (1 mark)

.....
.....

EXCERPT (25 Marks)

Read the following excerpt and answer the questions that follows.

"What are your expectations? Please don't get me started !

I expect the summit to be a historical moment. If adopted, Way Omega will change African politics dramatically. Just think: no more rigged elections; well, no more foul play, period."

"Dr Afolabi, not all the heads of state assembled here are fair players. In fact, a few are out - and - out foul players - they rose to power through military coups or rigged elections. Those won't be walking along Way Omega any time soon, will they?"

"Change is always like that, Ms McKenzie.One side of it has defenders of existing arrangements. These, sure about their loss if those arrangements end, fight tooth and nail to keep them. The other side has

challengers of existing arrangements. These not yet sure about their gain if new arrangements replace old arrangements, do not fight so hard to win them."

" Huh? What did you just say, Dr Afolabi?"

You are not listening to me anymore, are you, Ms McKenzie? Anyway, I was saying Way Omega will put Africa on a new course, free from the obstacles that have defeated it's past efforts. Imagine this, Ms McKenzie: Africa without coups, without civil wars, without..." He stopped himself. Look who is rambling on now, Ms McKenzie? Yet can you blame me? I told you not to get me started, remember?"

"Yes, I remember and yet we have your book : Failure of States. Dr Afolabi, may I ask you something? What makes you this optimistic about Africa's future now ,when in that book you were very pessimistic? Is it the content of Way Omega or the prestige of it's author?"

Questions

1. Describe African leadership as potrayed in the excerpt.

(2 marks)

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.....
.....

2. Make notes on Dr. Afolabi's trait. (5 marks)

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.....

3. Is Dr. Afolabi justified to be optimistic at the summit? Support your answer. (2 marks)

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

4. Referring to elsewhere in the book, explain why there is irony in what Dr. Afolabi tells Fiona about the Way Omega

(6 marks)

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.....

5. Comment on any two features of style used in the excerpt. (4 marks)

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.....

6.What events follow after this extract (3 marks)

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

7.Compare Fiona and Dr Afolabi's relationship now and later in the book. (3 marks)

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.....
.....

3. POETRY. (20 Marks)

Read the following poem and answer the questions that follow.

WHEN I WAS ONE - AND - TWENTY

When I was one - and -twenty
I heard a wise man say,
"Give crowns and pounds and guineas
But not your heart away;
Give pearls away and rubies
But keep your fancy free"
But I was one - and - twenty,
No one use to talk to me

When I was one - and - twenty
I heard him say again'
"The heart out of bossom

Was never given in vain;

" Tis paid with sighs a - plenty

And sold for endless rue."

And Iam two - and - twenty

And oh, ' tis true, tis true.

(A.E Housman)

a) Who is the speaker in this poem? (3 marks)

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

b) What advise does the wise man to the speaker? Does the speaker follow the advice ? Explain. (3 marks)

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

c) How much time has passed between the first and second stanza? Explain (2 marks)

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

d) Identify and illustrate the style used in the poem. What does the poet achieve by using them? (6 Marks)

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

e) Explain the meaning of the following lines. (2 marks)

But I was one and twenty

No use to talk to me

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

4. GRAMMAR (15 MARKS)

A) Change the following sentences into direct direct speech. (2 marks)

i) He said that when he saw them they were playing squash.

.....
.....

ii) The pupils said that they wished they did not have to take exams.

.....
.....

B) Fill in the blank space with the most appropriate preposition. (3 marks)

i) Cat jumped ..... the mantel piece.

ii) The cook dipped the cup ..... the porridge.

iii) Some students were sent home for going ..... the perimeter wall.

C).Write the following sentences according to instructions given. (5 marks)

i) The child would have drowned were it not for the quick action taken by the life saver. (Begin But...)

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

ii) Someone is watching us (Rewrite in the passive)

.....
.....

iii) As soon as you see him inform the police. (Rewrite using no sooner)

.....
.....

iv) Moses Set out for Canaan. His brother accompanied him (Begin with : setting)

.....
.....

v) If he comes, he will hot be punished.

.....
.....

D) Explain the meaning of the underlined expressions.

(2 marks)

i) Abdi will tidy up the room *When pigs begin to fly*

.....
.....

ii) My mother has *green fingers*

.....
.....

E) Complete the underlined verb to make the appropriate phrasal verb . (3 marks)

i) The immigrant complained about being descriminated because of his face

.....

ii) I boarded the car and was dropped at the mall.

.....

iii) As she was was cleaning her gun , it went and killed her.

.....

NAME:…… DATE:……..

CLASS:…… ADM NO……..

451/1

COMPUTER STUDIES

FORM THREE

PAPER 2

PRACTICAL

July/august 2023

Form three examination

TIME: $2^1/_2$ HOURS

TERM 2, 2023

INSTRUCTIONS TO CANDIDATES

- ✓ Type your name and admission number at the top right hand corner of each printout.
- ✓ Write the name and version of the software used for each question attempted in the answer sheet.
- ✓ Passwords should not be used while saving in the diskettes.
- ✓ Answer all questions
- ✓ All questions carry equal marks
- ✓ All answers must be saved in your diskette. Make printouts of the answers on the answer sheets provided.
- ✓ Hand in all the printout and the diskette
- ✓ Candidates may be penalized for not following instruction given in this pager
- ✓ Arrange your printout and staple them together.

QUESTION 1

1. Table 1, table 2 and table 3 are extracts of records, kept in a carpentry shop. Use the information to answer the questions that follow;

CAPENTER _ID	CAPENTER NAME
CAP_001	JAMES
CAP_002	JOHN
CAP_003	ALEX
CAP_004	ISAAC
CAP_005	MAURICE

Carpenter Table

CUSTOMER _ID	CUSTOMER NAME
CUST_01	MARY K.
CUST_02	DIANA K.
CUST_03	ALEX N.
CUST_04	MARTHA K.
CUST_05	SARAH W.
CUST_06	JOHNSON G.

Customer Table

Order Table

CARPENTER _ID	CUSTOMER _ID	ORDER _NO	ITEM ORDERED	MONTH	AMOUNT
CAP_001	CUST _01	1721	Bench	January	18,000
CAP_002	CUST _02	1722	Coffee table	January	25,000
CAP_003	CUST _03	1723	Office table	January	10,000
CAP_004	CUST _04	1724	Single bed	January	18,000
CAP_005	CUST _05	1725	Arm chair	January	60,000
CAP_001	CUST _01	1726	Double bed	February	75,000
CAP_002	CUST _04	1727	Dining table	February	85,000
CAP_004	CUST _03	1728	Arm chair	February	60,000
CAP_001	CUST _02	1729	Double decker bed	February	72,000
CAP_002	CUST _06	1730	Kitchen table	February	82,000
CAP_004	CUST _02	1731	Bench	March	18,000
CAP_003	CUST _06	1732	bench	march	18,000

a) i) Using database application package, create a database file named;

CARPENTERINFORMATION (1mk)

ii) Create three tables named **Carpenter Table, Customer Table** and **Order Table that will be used to store the above data.**

(10mks)

iii) Set the primary key for the tables

(2mks)

iv) Create relationship among the tables

(2mks)

b) i) Create a data entry form for each table

(3mks)

ii) Enter the data in **Carpenter Table, Customer Table and Order Table** respectively

(11mks)

c) i) Create a query named **individual income** to display the amount received from each customer every month.

(4mks)

ii) Create a database object that computers Total income for each month. Save the query as **Totalincomenomnthly.**

(6mks)

d) Create a query named **loyalty** to compute the total number of orders made by each customer over the three months.

(3mks)

e) Create a report to display order details, save the report as Order report

(4mks)

f) Print the three tables and the report

(4mks)

QUESTION 2

Use a spreadsheet to manipulate data in the table below.

Adm No	Name	Stream	Comp	Art	Bus	Eng	Mat	Student mean	Rank
C001	Barasa	H	56	45	36	56	26		
C002	Wangila	K	58	57	90	54	23		
C003	Wafula	H	48	56	54	45	25		
C004	Wanjala	K	78	95	78	46	24		
C005	Kerubo	H	49	86	68	35	52		
C006	Akinyi	K	56	45	25	63	54		
C007	Odhiambo	H	75	78	45	65	56		
C008	Okunyuku	K	89	69	65	53	51		
C009	Nekesa	H	69	58	45	54	52		
C010	Simiyu	H	85	46	78	52	53		
	TOTAL								

	TOTAL	FOR H							
	TOTAL	FOR K							

a) Enter the data in all bordered worksheet and auto fit all column. Save the workbook as **mark 1**

(15mks)

b) Find the total marks for each subject

(3mks)

c) Find total for each subject per stream using a function

(5mks)

d) Find mean mark for each student using a function

(5mks)

e) Rank mean student in descending order using the mean

(5mks)

f) Create a well labeled column chart on a different sheet to show the mean mark of every student. Save the workbook as **mark 2.**

(7mks)

g) Using **mark1,** use subtotals to find the average mark for each subject per stream. Save the workbook as **mark 3**

(7mks)

h) Print **mark 1,mark 2** and the **chart**

NAME:…….. DATE:……..

CLASS:…… ADM NO……..

451/1

COMPUTER STUDIES

FORM THREE

PAPER 2

PRACTICAL

July/august 2023

Form three examination

TIME: $2^1/_2$ HOURS

TERM 2, 2023

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(10mks)

iii) Set the primary key for the tables

(2mks)

iv) Create relationship among the tables

(2mks)

h) i) Create a data entry form for each table

(3mks)

ii) Enter the data in **Carpenter Table, Customer Table and Order Table** respectively

(11mks)

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(4mks)

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	TOTAL								

	TOTAL	FOR H							
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(15mks)

j) Find the total marks for each subject

(3mks)

k) Find total for each subject per stream using a function

(5mks)

l) Find mean mark for each student using a function

(5mks)

m) Rank mean student in descending order using the mean

(5mks)

n) Create a well labeled column chart on a different sheet to show the mean mark of every student. Save the workbook as **mark 2.**

(7mks)

o) Using **mark1,** use subtotals to find the average mark for each subject per stream. Save the workbook as **mark 3**

(7mks)

p) Print **mark 1,mark 2** and the **chart**

NAME: ……. ADM NO: ……. CLASS: …….
565/2
BUSINESS STUDIES
PAPER 2
FORM THREE
END TERM 2 EXAM 2023
TIME: 2 ½ HOURS

INSTRUCTIONS:

Answer any five questions only. All your answers must be written in the answer sheets provided.

1. (a) Explain five factors to consider when choosing a method of product promotion.(10 mks)

   (b) Explain five principles of insurance. (10mks)

2. (a) Describe five services rendered by retailers to consumers. (10 mks)

   (b) Despite the economies of scale enjoyed by large firms, some firms continue to operate on small scale basis. Explain five reasons. (10 mks)

‘

3. (a) Explain five measures that would be taken to ensure smooth functioning of a warehouse. (10 mks)

   (b) The balances below were extracted from the books of Romano Traders as at 1st May, 2023

	Shs
Equipment	320,000
Stock	180,000
Bank	104,000
Cash	20,000
Capital	544,000
Creditors	80,000

During the first week of May 2023, the following transactions took place.
May, 2023

May 2 - Romano Traders introduced additional funds into the business by depositing sh 76,000 into business bank account.
May 3 - Purchased a motor vehicle from CMC Motors worth sh 400,000 on credit.
May 5 - Paid a Creditor sh 12000 Cash
May 6 - Sold goods on credit to Wafula Sh 50,000
May 7 - Bought equipment Sh 100,000 by cheque.

Required:
Prepare the balance sheet of Romano Traders as at 7th May, 2023 showing the items in

their relevant classes. (10 mks)

4. (a) Explain five problems encountered when using the expenditure approach to compute national income. (10 mks)

   (b) Discuss five factors that may promote entrepreneurship in Kenya. (10 mks)

5. (a) With the aid of a well labeled diagram, explain the effect on the equilibrium price and quantity when the supply of cabbages increases. (10 mks)

   (b) Explain five ways in which internal environment may contribute to the success of a business enterprise,. (10 mks)

6. (a) Explain five reasons why human beings make choices on the wants to be satisfied. (10 mks)

   (b) On 1st September 2022, Mamboleo had Sh 55,000 in cash and sh 250,000 at bank. during the month, the following transactions took place.

September:

2nd	-	Cash sales banked Sh 35,260
3rd	-	Bought ribbons in cash sh 4,500
8th	-	Paid Wangila, a creditor Sh 94,000 by cheque in full settlement of his account after deducting 6% cash discount.
12th	-	Received a cheque for sh 58,800 from Wetu after allowing her a cash discount of sh 1,200
15th	-	Paid salaries Sh 34000 in cash
25th	-	Withdrew Sh 50,000 from bank for office use.
28th	-	Anyango, a debtor paid her account of sh 75,000 by cheque less 10% cash discount.
30th	-	Deposited all the cash into bank except sh 13,700

Required:

Prepare a three column cash book and balance it off. (10 mks)

NAME:……ADM:……..CLASS:.

BUSINESS STUDIES
PAPER 1
FORM 3
END TERM 2. 2023
TIME: 2 HOURS

INSTRUCTIONS:
ANSWER ALL QUESTIONS IN THE SPAES PROVIDED

1. State four internal economies of scale that a firm can enjoy as its production increases. (4mks)

2. Highlight four uses of national income statistics (4mks)

3. Mention four ways of solving the problem of unemployment in Kenya. (4mks)

4. Outline four features of perfect competition market structure.
(4mks)

5. Highlight four characteristics of basic human wants.
(4mks)

6. Highlight four reasons why Kiosks continue to exist in an economy despite stiff competition from supermarkets
4mks)

7. The following information relates to karibu traders for the year ended 31st December 2008.

Details	Shs
Fixed Assets	1,840,000
Current assets	400,000
6 years bank loan	600,000
Current liabilities	150,000

Determine owner's capital using the information given above.
(4mks)

8. Highlight five factors to consider when selecting an office equipment.
(5mks)

9. Outline four factors that may hinder effective communication in a classroom set up.
(4mks)

10. Kamau a young entrepreneur would like to start a business in Muhoroni town. Outline four factors that would show the existence of a business opportunity within the town.
(4mks)

11. Identify the office equipment that's used in each of the purposes.
(5mks)

(i) Printing postage impressions on envelope -

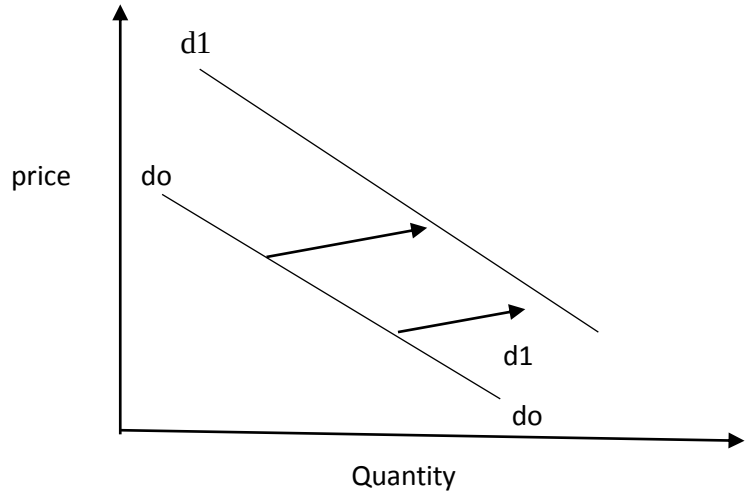
(ii) Pinning papers together -

(iii) Preparing cash receipts -

(iv) Cutting unwanted documents into tiny pieces -

(v) Making holes in papers to facilitate filing -

12. Outline any four factors that would have led to the phenomenon shown in diagram below.
(4mks)



13. Highlight four circumstances under which a trade may use air transport.
(4mks)

CONFIDENTIAL

INSTRUCTIONS

In addition to the equipment, apparatus and chemicals found in the chemistry laboratory each student will require the following:

1. About 80 cm^3 of solution A
2. About 100 cm^3 of solution B
3. About 1g of solid C
4. 1 pipette(25mls) & pipette filler
5. 1 burette (50mls)
6. 2 conical flasks (250mls)
7. Complete stand
8. White tile
9. Distilled water

10. Phenolphthalein indicator
11. 6. clean test-tubes in a rack
12. About 1g of solid D
13. 1 boiling tube
14. A metallic spatula
15. A filer funnel
16. A filter paper

Access to;

- ✓ 2.0M NaOH solution with a dropper
- ✓ 2.0M ammonia solution with a dropper
- ✓ 2.0M nitric (v) acid with a dropper
- ✓ 1.0M barium chloride solution with a dropper
- ✓ 1.0M lead (ii) nitrate solution with a dropper
- ✓ 1.0M Sodium sulphate solution sulphate with a dropper
- ✓ 2.0M HCl with a dropper

Notes:

- ***solution A is sulphuric acid 0.12M***
- ***solution B is 0.2M sodium hydroxide***
- ***solid C is mixture of Zinc sulphate and Lead (ii) carbonate ratio o.f 1:2***

14. Record each of the following transactions into their relevant ledger accounts. (4mks)
    - 2nd March 2023:
      Started a business with Kshs 10000 in cash
    - 3rd March 2023: bought goods worth Kshs 12,000 on credit from Mawa Enterprises.

15. List four forms of retail businesses that a school leaver may engage in .
(4mks)

16. Highlight four roles played by the broker in the chain of distribution.
(4mks)

17. Highlight four benefits of localization of firms.
(4mks)

18. State four basic features of a market.
(4mks)

19. The following information relates to Kiboko traders as at 31st December 2015

Details	Kshs
Total drawings	4000,000
Added investments	8.000.000
Capital on 31st December 2015	7,000,000
Profit	3,100,000

Calculate Kiboko's initial capital.
(4mks)

20. State the principles of Insurance described in the statements given below.
(4mks)
(a) Restoring the Insured's financial position after suffering loss from an insured risk.
(b)
(c) Existence of a very close relationship between the loss suffered and the Insured risk.

(d) The Insurer taking ownership of the remains of the destroyed property after the Insured is duly compensated.

(e) Proof that the Insured will suffer direct financial loss if property is destroyed.

21. State the four principles that govern the co-operative societies in Kenya.
(4mks)

22. State five components of business studies.
(5mks)

23. Give four reasons why most banks prefer a landscape office.
(4mks)

24. Identify the ledgers in which the following accounts are maintained.
(5mks)

ACCOUNT	LEDGER
(i) Pendo (debtor)	
(ii) Machinery	
(iii) Rent	
(iv) Capital	
(v) Amolo (creditor)	