



KINGCOLLINS SECONDARY SCHOOL

ACADEMIC AND QUALITY ASSURANCE DEPARTMENT

FORM TWO WEEK SIX HOME PACKAGE

Time: 4th May – 8th May 2021

1. Answer **ALL** questions in this paper.
2. All workings should be written in the respective subject exercise book.
3. Any need for consultation use the following phone numbers for teachers.

- i. Sir Yohana 0769962485
- ii. Sir Zabron 0757057265/0621912238
- iii. Sir Msigala 0769622985/0684716417
- iv. Sir Lupembela 0684874330/0757219175
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- vi. Sir Tumain 0766598767
- vii. Sir Nicolaus 0768078981/0625609368
- viii. Sir Elikana 0767033979
- ix. Sir Martine 0759053233
- x. Sir Mbena 0658228822
- xi. Md. Leilah 0787438305
- xii. Sir Kdibuka 0693113996

BIOLOGY

- (a) Draw the diagram of the villus
(b) Give three differences between Ruminants and monogastric stomach
(c) Explain why Goats are able to digest grasses while Human being is not able to digest
- Write an essay on Food preservation, food storage
 - Meaning of food preservation and food storage
 - Traditional methods of food preservation(3points)
 - Modern methods of food preservation (3points)
 - Importance of food preservation (3points)

GEOGRAPHY

- Explain the effects of high population pressure on forest resources and suggest ways to overcome the problem of forest resources depletion.
- The on-going Covid-19 pandemic disease has seriously affected the Tourism sector all over the world, as a knowledgeable student suggest six ways of improving tourism in Tanzania after the demise of Covid-19.
- (a) In station Y on a map, an area covered by thick forest was found to be **19** full squares and **26** half squares. Calculate the area of the thick forest in square kilometres if the grid square is **1.5** and the map scale given is **1:100,000**.
(b). Change the scale **1:25,000** into verbal scale.

COMMERCE

- Briefly explain at least six (6) factors to consider when locating an industry
- Briefly explain the benefit of self-employment.
- Mr. Wairege inherited a substantial amount of money and would like to set up a business. Explain to him the factors he should take into consideration in deciding which business unit to establish.
- Briefly explain five (5) advantages and five (5) disadvantages of Water transport

CHEMISTRY

- Explain how you would get water from sugar solution. Support your answer with diagram.
- Mention four importance of giving first aid.
- Explain the concept of renewable and non-renewable sources of energy. Give one examples in each.
- Define the term periodicity. Draw a periodic table; insert all the first twenty elements in the periodic table.
- Explain why most of the Tanzanian schools teaching chemistry as among of the science subject to their students. Give five reasons.

CIVICS

1. What do you understand by the words “free and fair election”.
2. Is Tanzania practicing free and fair election? State your response with five points.
3. How are life skills important? Six points.
4. Give five conditions which allow the president of the United Republic of Tanzania to dissolve the parliament.
5. With four points clarify how the local government spends its revenue.

BASIC MATHEMATICS

1. Express 0.3125125..... as a ratio of two integers in its simplest form
2. Find the possible values of x and y for these simultaneous equations
$$2x + y = 8$$
$$x^2 + xy - y^2 = 11$$
3. Solve the equation $x^2 - 6x - 16 = 0$ by completing the square
4. Solve for x if $\sin x^\circ = 0.5$
 - a) Given 0.05473 correct into
 - (i) Three (3) decimal places
 - (ii) Three (3) significant figure
 - (iii) Standard notation
 - (b) Express $1.\dot{2}1\dot{3}$ as a rational number
5. (a) (a) If $(x-65^\circ)$ and $(4x+10^\circ)$ are complementary angles what is the value of x.
(b) Let A is an acute angle of right angled triangle ABC such that $\hat{B} = 90^\circ$ and $\text{Cos } \hat{e} = \frac{5}{13}$ find the value of $\text{Sin } \hat{A}$.
6. (a) Solve the following quadratic equation $2x^2 + 7x + 6 = 0$ by using the method of completing the square.
(b) Solve for x if: $\frac{1}{x-2} - \frac{1}{x^2-4} = \frac{4}{5}$
7. a) Rationalize the denominator $\frac{\sqrt{3}}{\sqrt{2}-\sqrt{5}}$
(b) Find the value of x for: $2^{2x+1} - 2^{x+1} + 1 = 2^x$
8. (a) Evaluate, $2\log 5 + 5\log 2 - \frac{1}{2} \log 16$
(b) If $a-b = \sqrt{13}$ and $a^2 + b^2 = 25$ find the value of ab.
9. (a) If $6(ax - b)^2 = 54x^2 + 72x + c$. find the value a, b and c
(b) Make c the subject of the formula in the equation $y = \frac{ax+b}{cx+d}$
10. The radio is bought for Tshs. 400,000/= and sold for 500,000. Find:
 - (i) The profit made
 - (ii) The percentage profit.(b) Find the time in which Sh. 300,000/= will earn an interest of Shs. 60,000/= if the interest rate is 10% per annum.

HISTORY

1. Long distance trade was the trade carried out long distance as traders had to move for long distance going on exchanging goods with other societies. Discuss six factors that led to the growth of Trans Saharan trade.
2. The early states in Western Sudan were established in the region between the Saharan desert and the forest region of the South. With examples discuss general factors for the rise of western Sudanic states.
3. Before colonialism, African communities had social and economic interactions. Explain six social factors for interaction among Africans.
4. The Ngoni were Bantu-Nguni speaking people of Northern Zululand in South Africa. What were the causes of Ngoni Migration to East Africa? (Use six points)

BOOK KEEPING

1. Write short notes on the following
 - (a) Bank reconciliation statement
 - (b) Account payable
 - (c) Purchases Return Day Book
 - (d) Petty Cash Book
 - (e) Statutory expenditure
2. Classify the following into personal, real or nominal account and show their nature balances.

Name of account	Type of account	Nature balance
Purchase		
Sales		
Hezekiah – a debtor		
Owner’s capital		
Rent		
Bank overdraft		
Commission earned		
Repairs to motor van		

3. From the following transactions, you are required to prepare **sales, purchases, returns inwards and returns outwards journals**, and then post the items to the relevant accounts in the **sales and purchases ledgers**. Then transfer the total of the journals to the **general ledgers**.

December 1. Credit sales to: Musa 8000/=, John 10,000/= and Anderson 25,000/=
December 8. Credit purchases from Anna 700/=, Asha 5,000/=, Ally 4,000/= and Mlowe 3,000/=
December 11. Credit purchases from Asha 12,000/=, Brown 11,000/= and Ally 10,000/=
December 13. Credit sales to Alphonse 21,000/=, David 18,000/= and Anderson 30,000/=
December 14. Goods returned to suppliers Anna 1,400/= and Mlowe 700/=
December 15. Goods returned by customers Musa 1000/=, Anderson 3,000 and David 2,000/=
December 21. Credit purchases from Kajanja 9000/=, Asha 15,000/= and Ujamaa

cooperatives 10,000/=

December 24. Credit sales to Musa 18,000/= and Alphonse 24,000/=

December 27. Goods returned to suppliers kajanja 1,600/= and Asha 3,000/=

4. The following bank statement was received by L.Mwaiki on 31st March 2004:

Date	Particulars	Debit	Credit	Balance
March 1.	Balance			86,400
March 3.	Deposit		53,700	140,100
March 3	Cheque No 691	45,000		95,100
March 3.	Deposits		30,000	125,100
March 10.	Unpaid cheque	43,800		81,300
March 15.	Deposits		22,200	103,500
March 19.	Cheque No 693	33,900		69,600
March 31.	Deposits		36,000	106,500
March 31.	Dividends from DCFK		3,000	109,500
March 31.	Deposits		42,000	151,500
March 31.	S.O. Rent	12,000		139,500
March 31.	S.O. insurance	10,800		128,700
March 31.	Bank charges	1,080		127,620

His cash book had the following entries for March 2004.

DR.

L. MWAIKI'S CASH BOOK

CR

2004	Shs.	2004	Shs.
March 1. Balance	86,400	March 1. Cheque No. 691	45,000
March 2. Deposits	53,700	March 5. Cheque No. 692	25,500
March 3. Deposits	30,000	March 7. Cheque No. 693	33,900
March 7. Deposits	34,200	March 17. Cheque No. 694	22,800
March 11. Deposits	22,200		
March 16. Deposits	36,900		
March 19. Deposits	31,800		
March 22. Deposits	28,500		

Required

- Show the adjusted cash book.
- Prepare a bank reconciliation statement as at 31st March 2004

KISWAHILI

- Sentensi zifuatazo ni tata . Toa maana mbili kwa kila sentensi ili kuthibitisha utata huo
 - Amempigia nini?
 - Ameiba kanga.
 - Ukipita sokoni njoo na nyanya
 - Dada una ua.
 - Ile ni nyumba ya wageni.

2. Andika insha isiyozidi maneno mia tatu inayohusu umuhimu wa misitu kwa jamii.
3. Lugha ina dhima nyingi katika jamii. Taja dhima tano.
4. Unda maneno mawili ya Kiswahili sanifu kwa kila mzizi uliopewa hapo chini
 - i. –pamb-
 - ii. –it
 - iii. –on-
 - iv. –la-
 - v. –chek-

PHYSICS

1. (a) List down four uses of hydraulic press.
(b) Why is a hole at the bottom of a ship more dangerous than one that is near the surface?
(c) Calculate the pressure at the bottom of the sea water 52m deep, if the density of water is 1025 Kg/m^3 . Take the acceleration due to gravity (g) as 10N/Kg .
2. (a) A water can has three holes punched – the first at the bottom, the second at the middle and the third hole almost at the top. If water is filled in the can, how will the water spurt through the bottom and the top holes?
(b) (i) Why is it easier to cut a piece of meat with a sharp knife than a blunt knife?
(ii) The tip of a needle of hypodermic syringe has a cross – sectional area of $1 \times 10^{-6} \text{ m}^2$. If a doctor applies a force of 120 N to a syringe that is connected to the needle, what is the pressure exerted at the tip of the needle?
(c) The small piston of a hydraulic press has an area of $3.0 \times 10^{-4} \text{ m}^2$ and the bigger piston has an area of $2.0 \times 10^{-2} \text{ m}^2$. The two pistons are in the same level. If the force of 120N is applied to the small piston, calculate the force required to be applied to the bigger piston to stop it moving.
3. (a) Define the word coulomb.
(b) States Ohm`s law.
(c) Two resistors of 3Ω and 6Ω are connected in parallel to a 3V battery.
 - (i) Draw the schematic diagram.
 - (ii) Find the effective resistance of the circuit.

Calculate the current passing through the 6Ω resistor

ENGLISH LANGUAGE

1. Re-write the following sentences according to the instructions given.
 - (i) He is very ill. He can't write the exam.
(Re-write using:too.....to....)
 - (ii) Maganga was not present. Mrisho was not present.
(Re-write using: Neither....nor)
 - (iii) The headmaster wrote a bad letter to my parents.
(Re-write the beginning: The letter.....)
 - (iv) English is more difficult than physics.
(Begin: Physics.....)
 - (v) Jane is very tall. She can clean the blackboard.
(Join the sentences using: ... enough to....)

- (vi) The student is crying. Her bag has been stolen.
(Re-write using:whose.....)
- (vii) If you don't stop I will call the police.
(Begin: unless.....)
- (viii) "Do you understand?", the teacher asked.
(Re-write in reported form, begin: The teacher...)
- (ix) I read many story books. I want to improve my English.
(Re-write using:.....in order to.....)
- (x) Had he heard the noise, he would have opened the door.
(Re-write using: He would have.....if.....)