



# VIVA COLLEGE SCHOOL

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**HOLIDAY WORK TERM THREE, 2019**

**GREAT MINDS SHAPE THE WORLD**

**SENIOR TWO**

Academics

dept.

4<sup>TH</sup> NOV, 2019

SUBJECT	CHALLENGE	MKS
<b>INSTRUCTIONS</b>		
1. For classes 1 to 2 all questions in all subjects are compulsory thus attempt all questions 2. For senior 3 students, please attempt all questions for the compulsory subjects and only those for your options 3. For senior 5 students, please attempt all questions in your subject combination 4. For better marks, you must present and explain thoroughly well all the attempted challenges 5. For each of your study subject done, it must be put in a separate 96 exercise book (its ok to use the previous books) 6. Holiday work must be done before reporting back to school and the respective class tutor shall receive your work on reporting		
ENGLISH	NTV Uganda has advertised for a post of teens presenter. write an <b>application letter</b> to the Human Resource Manager NTV. P.O. BOX 35933 Kampala-Uganda.	10mks
LITERATURE	<b>Explain the lessons who you have learnt from the novel Oliver Twist</b>	20mks
FRENCH	Describe your typical day (activities you do from waking up to sleeping at night in French in 10 sentences	20mks
MATHEMATICS	1. Given the function $f(x) = 2x - 3$ and $g(x) = x^2 - 3x$ ; find; (a) the <b>inverse function</b> , $f^{-1}(x)$ and hence $f^{-1}(-2)$ (b) the expressions for; (i) $fg(x)$ (ii) $gf(x)$ (c) the values of x for which $gf(x) - 11 = fg(x)$ . 2. Use elimination method to solve the simultaneous equations $2x + 5y = 12$ $3x - y = 1$ (4 marks) 3. Given that $203_n = 53$ . Find the value of n. (4 mark) 4. Express $\frac{1}{\sqrt{5}-\sqrt{2}}$ with a <b>rational</b> denominator (4 marks) 8. (a) Form <b>quadratic equations</b> in x whose roots are, (i) (-3, 3) (3 marks) (ii) Use <b>logarithms tables</b> only to evaluate, $(256.2)^2 \times 0.462$ (8 marks)	20mks
CHEMISTRY	1. (a) State the <b>difference</b> between <b>hard water</b> and <b>soft water</b> . State the: (i) <b>ions</b> which cause <b>water hardness</b> (ii) <b>compounds</b> which cause <b>temporary hardness</b> (iii) <b>compounds</b> which cause <b>permanent hardness</b> . (b) Outline (i) four ways of removing <b>temporary hardness</b> from water (ii) Three ways of removing <b>permanent hardness</b> . (c) How does <b>boiling</b> remove <b>temporary hardness</b> ? Write an <b>equation</b> to illustrate your answer. (d) What is <b>scum</b> ? Write an <b>equation</b> for formation of scum. (e) State two <b>advantages</b> and two <b>disadvantages</b> of using <b>hard water</b> 2. (a) What is meant by the term <b>allotropy</b> . (b) State the (i) <b>Crystalline allotropes</b> of carbon. (ii) <b>Amorphous allotropes</b> of carbon. (c) State the use(s) of each form of carbon mentioned above. (d) (i) State three differences between the two <b>crystalline allotropes</b> of carbon. (ii) Draw and describe the structure of each <b>crystalline allotrope</b> . How can it be proved that the two are <b>allotropes</b> of carbon? (e) <b>Carbon monoxide</b> is a <b>reducing agent</b> . State three oxides which can be reduced by carbon monoxide. Write an <b>equation</b> for the reaction and state what is observed for each reaction. (f) State the products formed when a <b>metal carbonate</b> decomposes on heating. (d) State two <b>carbonates</b> which do not decompose on normal heating	30mks
BIOLOGY	a) Describe the activities of <b>digestion</b> which occur in the following parts of the <b>alimentary canal</b> . (i) <b>Stomach</b> (04 marks) (ii) <b>Ileum</b> (06marks) b) How is the <b>ileum adapted</b> to <b>food absorption</b> ? (05 marks)	20mks

PLEASE TURN OVER



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SUBJECT	CHALLENGE	MKS
COMMERCE	1.(a)What is the difference between <b>nationalization</b> and <b>privatization</b> ? (4 marks) (b) Explain the reason that should justify <b>privatization</b> .(16 marks) 2. (a)Mention any six source of <b>government revenue</b> .(6marks) (b) Explain 7 reasons as to why the <b>government</b> should engage its self in trade. (14 mark)	40mks
HISTORY	1. (a) Explain the steps taken to avoid <b>slave trade</b> . (b) What were the problems faced during the <b>abolition of slave trade</b> . 2. (a) Describe the organization of <b>Bunyoro Kitara kingdom</b> under the <b>Chwezi</b> ? (13 marks) (b) What led to the decline and fall of <b>Bachwezi rule</b> ? (12 marks)	50mks
AGRICULTURE	1. (a) State the <b>chemical</b> and <b>physical qualities</b> of <b>clean milk</b> ? (06 marks) (b) Explain the factors to consider before starting a <b>dairy farm</b> , (14 marks) (c) How can the <b>quality</b> and <b>quantity of milk</b> produced in <b>Uganda</b> be increased? (30 marks)	50mks
GEOGRAPHY	1.(a) Draw a sketch map of <b>California</b> and on it, mark and name (8 MARKS) (i) <b>Coastal ranges &amp; Central valley</b> (ii) <b>Appalachian Mountain</b> (iii) <b>Rivers: Colorado, Sacramento</b> (iv) <b>Shasta Dam</b> (b) Describe the factors which have favoured <b>fruit farming</b> in the <b>central valley of California</b> . (7 marks) (c) Explain the contribution of fruit farming to the development of California. (6 marks) (d) Outline the <b>problems facing farming</b> in the <b>central valley of California</b> . (4 marks)	25mks
IRE	(a) Describe how is <b>marriage</b> contract concluded? (b) Why is marriage <b>ceremony important</b> ? (25 marks)	20mks
FINE ART	In an area of <b>25cm x 30cm</b> , using free hand calligraphy, write the text below and include a creative border design. <b>Flamingos</b> In East Africa the <b>flamingos</b> are found around <b>Lake Nakuru in Kenya</b> . This place is a bird sanctuary where people may not shoot birds. Their beauty lies in their feathers that are usually either white, flamed coloured or deep red.	40mks
SWAHILI	1.(a)Andika vitenzi kumi katika ngeli ya KU. { Writes ten verbs under KU CLASS } (b) ensi kumi kwa kutumia vitenzi hao juu. {use the above verbs to construct sentences }	20mks
COMPUTER	1. (a) Why is it important for a <b>school</b> to have a <b>website</b> ? (10 marks) (b) Identify the <b>health hazards</b> that are associated with the <b>use of computers</b> (10 marks)	20mks
CRE	1. (a) In what ways has the <b>government</b> of <b>Uganda</b> attempted to promote justice in the country? (10 marks) (b) Explain some of the <b>injustices</b> that existed among the <b>Israelites</b> in the <b>Old Testament</b> . (10 marks)	20mks
PHYSICS	1 (a) Define <b>pressure</b> and state the SI unit (b) Describe briefly how a <b>force pump</b> works (c) State the <b>Bernoulli's principle</b> (d) Explain why a person standing on a railway station tends to be drawn towards a fast passing train (e) What do you understand by (i) <b>Turbulence</b> (ii) <b>Streamline flow</b> (f).A glass block weighs <b>25N</b> in air. When wholly immersed in water the block weighs <b>15N</b> , calculate the (i) <b>Up thrust of the block</b> (ii) <b>Density of the block in kgm<sup>-3</sup></b>	20mks

### Assessment Percentage rank for term one, 2020

Report	Holiday work	Mid-term exam	End of term exam	TOTAL MARK
Mid-term report	20%	80%	.....	100%
End of term report	10%	30%	60%	100%

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*Wish you a happy new year*



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