VIVA COLLEGE SCHOOL

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SUBJECT	CHALLENGE	MKS
INSTRUCTIONS	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 teacher shall receive your work on reporting	
ENGLISH	Narrate your experience in viva College School.	20mks
LITERATURE	Write a poem titled "*MOTHER*" having 3 stanzas and 14 lines.	20mks

FRENCH — Search the internet and find the nationalities of the male and female people in French

country	Rwanda	Tanzanie	Senegal	Chine	Iran	Angleterre	Canada	Amerique	Brazil	Benin
Male										
Female										

(20mks)

MATHEMATICS (40mks)

1. (a) Find the *highest common factor* of **36, 48** and **72.**
   (b) Arrange in descending order $\frac{2}{3}, \frac{1}{4}, \frac{1}{3}, \frac{2}{5}$
2. Express 112_{three} to binary base
3. Calculate: (i). $32_{six}+24_{six}$ (ii). $312_{four}-33_{four}$
4. Use a **number line** to find the value of (a) $+6(+4)$ (b) $-3 – (+5)$
5. using a **numberline** show $-3<y<3$ and hence state the solution state
6. Given that $54_{seven} = 43_n$, find the value of **n.**
7. (a). Express 360 as a product of its prime factors.
8. Solve for x : (a). $2x-5=4x-11$.
9. If $m*n=3m-n^2$, evaluate :(i) $2*1$.   (ii) $-5* -3$
10. Rewrite the recurring decimal 0.2333…… into a fraction.

CHEMISTRY (30mks)

1. (a) What is meant by the following terms   (i)*Brownian motion* (ii) *diffusion*
   (b) Obtain clean water and pour into a clean colorless glass to halffull.Add one tea spoon and leave to stand for 3 hours without any disturbance.
     (i)State what you observed after 3 hours. (ii) What was this experiment demonstrating?
   (c) What process occurred in (b) above
   (d)(i) suggest what would be observed if hot water was used.(ii) Give a reason for your answer in d(i)
2. (a)Give any 3 differences between chemical change and physical change
   (b)For each of the following processes, state whether it is *physical* or *chemical* change
     (i) melting of wax (ii) burning of magnesium metal in air (iii)rotting of dead animal
     (iv) Burning of iodine crystals   (v)rusting of iron metals
   (c) Apart from the processes given in (b) above, give any 3 other examples of processes which are
     (i)**physical** changes   (ii) **chemical** changes

BIOLOGY (30mks)

1. (a) Define the following terms as used in **taxonomy** (06 marks)
     (i)Taxon (ii) Binomial nomenclature   (iii) Classification
   (b) Give four reasons why **classification** of living things is important (04)
2. (a) With examples, give the economic importance of bacteria (15 marks)
   (b) Explain why **bacteria** are abundant in nature (05 marks)

PHYSICS (30mks)

(a) Define **density** and state its S.I unit.
(b) The following readings were recorded when measuring the **density** of a stone.
   Mass of stone = 25g,   Volume of water= $25cm^3$ Volume of water and stone=$35cm^3$
   What is the density of the **stone**?
(c) Define the following terms
   (i)**Fundamental quantities**   (ii) **Derived quantities**   (iii) **Volume**
(d) List any five examples of fundamental and derived quantities.
(e) Calculate the **volume** of a sphere of diameter 4cm.
(f) A good laboratory has a **fire extinguisher** and a first aid kit state all items that make up first aid kit.

PLEASE TURN OVER

SUBJECT	CHALLENGE	MKS
COMMERCE	1. Differentiate between *specialization* and *division of labour*. (4 marks) 2. Explain the advantages and disadvantages of specialization. (16 mark)	**20mks**
HISTORY	1. (a)What factors led to the development of the *coastal towns* by **1500AD**?: (12MARKS) (b) Explain the factors which led to the collapse of such coastal towns. (13 marks)	**25mks**
AGRICULTURE	1. (a) Give the meaning of the term **soil** and mention any 5 of its *components*? (10 marks) (b) Explain 10 ways how the *fertility* of the soil can be **lost**. (20 marks) (c) Describe *10 methods* that can be used to **improve** *soil productivity*. (20 marks)	**40mks**
GEOGRAPHY	1. Draw a sketchmap of New York and on it mark and label (a) Rivers: *East* and *Hudson* (b) Islands: *Manhattan* and s*taten* (c) *Atlantic* ocean (d) Airports: JF kennedy, Larguardia (e) Describe the physical factors which have favoured the development of *New York Port.*	**40mks**
IRE	Q1. Make research and find out: (a) How a congregational prayer is performed. (b) Give characteristics of *Juma prayer.*	**20mks**
FINE ART	**Senior 1: <u>The Principles of Art and Design</u>** (these are the guidelines which artists use to arrange and organise the *Elements* of art to produce any work of art). They include the following; <u>Balance</u>, <u>Proportions</u>, <u>Dominance</u>, <u>Rhythm/ Movement</u>, <u>Unity/ Harmony</u>, <u>Emphasis</u>, <u>Contrast</u>, <u>Variety</u>. *Task:* Research and make short notes on each of the above Principles of Art and design.	**20mks**
SWAHILI	1(a) Andika miezi ya mwaka katika Kiswahili (Write months of the year in Kiswahili) (b) Andika majina nane ya rangi katika Kiswahili (Write eight names of colours in Kiswahili)	**20mks**
COMPUTER	Computers are classified into four major categories; explain into detail the classification of computers giving examples of each.	**20mks**
CRE	1 (a) Explain the changes brought by the *Christian missionaries* in Uganda? 10 marks (b) What problems did the Christian missionaries face? 10 marks	**20mks**
F.N	1(a) Define the term food hygiene (b) Outline at least **four (4)** major aspects to maintaining good health (c) Mention any **five (5)** parts found in the dermis of the human skin and functions of each 2(a) Mention the vitamin important for the proper functioning of the eyes (b) Describe any **three (3)** infections to the eye and how they can be prevented (c) Outline the ways of how one can maintain his/her nose in a good working condition	**20mks**

Assessment Percentage rank for term two, 2019

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%**

GREAT MINDS SHAPE THE WORLD

END