

SUBJECT

VIVA COLLEGE SCHOOL

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HOLIDY WORK TERM TWO, 2019 GREAT MINDS SHAPE THE WORLD

Academics Dept 27nd APRIL, 2019

MKS

SENIOR FIVE CHALLENGE

1. For classes 1 to 2 all questions in all subjects are compulsory 2. For senior 3 students, please attempt all questions for the compulsory subjects and only those for your options 3. For classes 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 6. Holiday work must be done before reporting back to school and the respective class teacher shall receive your work on reporting GP. 1 Explain the role of non-government organisations in your country. 1 1. You have completed your UACE examinations and you are interested in using your computer skills to earn a living. (a) Explain five computer based opportunities one can take up to get income in your community. (b) Describe six problems associated with the continuous use of computers in your society. 1 1. The table below shows the cumulative frequency distribution of marks of 800 candidates who sat a national mathematics contest. Mark(%) 1-10 11-20 21-30 31-40 41-50 51-60 61-70 71-80 81-90 91-100 F 30 80 180 330 480 610 700 760 790 800 800 180	SUBJECT	_	CHALLENGE	MIKS		
2. For sealors 3 students, please attempt all questions for the computory subjects and only those for your options 3. For classes 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 of secretice book 6. Flooding work must be done before reporting back to school and the respective class teacher shall receive your work on reporting 6. Flooding the receive your work on reporting 6. Explain five computer based opportunities one can take up to get income in your community. 6. (b) Describe six problems associated with the continuous use of computers in your society. 8. Flooding the receive your work on reporting 6. (c) Explain five computer based opportunities one can take up to get income in your community. 6. (d) Describe six problems associated with the continuous use of computers in your society. 8. Flooding the receive your work on reporting the receive your work on reporting the receive your work on reporting the your your your your your your your your	INSTRUCTIONS		2.11			
3. For classes 5 students, please attempt all questions in your subject combination 4. For better marks, you must precent and explain theroughly well at the attempted challenges 5. For each of your study subject done, it must be put in a separate 96 exercise book 6. Holding work must be done before reporting back to school and the respective class teacher shall receive your work on reporting GP. 1. Explain the role of non-government organisations in your country. 1. Pyon have completed your UACE examinations and you are interested in using your computer skills to earn a living. (a) Explain five computer based opportunities one can take up to get income in your community. (b) Describe six problems associated with the continuous use of computers in your society. 1. The table below shows the cumulative frequency distribution of marks of 800 candidates who sat a national mathematics contact. 1. The table below shows the cumulative frequency distribution of marks of 800 candidates who sat a national mathematics contact. 1. The table below shows the cumulative frequency distribution of marks of 800 candidates who sat a national mathematics contact. 2. Construct an Ogive for the data and use it to estimate the: (c) Construct an Ogive for the data and use it to estimate the: (d) Proportion of candidates that failed if the pass mark was 50% (Olmark) 1. Evaluate for the value(s) of y which satisfy each of the following equations: (a) √(3x + 4) − √(x − 3) = 3 (Smarks) (b) 5x + 125 = −6(5) **1 2. Solve for x and y in the following simultaneous equations: (a) 2 √(3x + 4) − √(x − 3) = 3 (Smarks) (b) 5x + 125 = −6(5) **1 2. Evaluate for the value(s) of y which satisfy each of the following equations: (a) 2 √(3x + 4) − √(x − 3) = 3 (Smarks) (b) 5x + 125 = −6(5) **1 2. Events and your such that: (a) P(x) = \frac{x}{2}, P(\frac{x}{2}) = \frac{1}{4} and P($\frac{x}{2}) = \frac{1}{2}$. Find; (i) P(x) (ii) P(x n y) (4 marks) (b) Given that events A and B are independent and P(x) = $\frac{x}{2}$. Find; (ii) P(B) (iii) P(AUB) (4 mks)						
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(a)Estimate the (i)Modal height (ii)Median height (iii)standard deviation (b) Represent the above data on a histogram. Use it to estimate the modal height (c) Plot an Ogive and use it to estimate the (i) 70th percentile(ii)Median (iii)Semi interquartile (ii) Interval of the height of the middle 60% of the students' 163 – 168 15 169 – 172 6 173 – 176 2 2 163 – 168 15 169 – 172 6 173 – 176 2 2 163 – 168 15 169 – 172 6 173 – 176 2 2 1	MATHEMATICS		(b) Given that events A and B are independent and $P(A) = \frac{1}{5}$, $P(AUB) = \frac{1}{5}$. Find: (i) $P(B)$ (ii) $P(AUB)$ (4mks)			
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1	(a)Differentiate between autolysis and autophagy(2marks) b)describe the structure of lysosome(4 mks) (b)Explain the different functions of lysosome in the life of an organism (6marks)						
2	Paper 2 (a)Outline the unique features of a bacterium.(4marks) (b) Discuss the diversity of different bacteria in relationship to their mode of living. (10 marks) (c) Outline the economic importance of kingdom monera(06 marks)						
3	Paper 3 You are required to obtain a cockroach and label it specimen R (a)Examine the external features , state the features you can use to classify the specimen according to following taxa (i) class (ii) phylum(3marks) (b) i)state the sex of the specimen(1mark) (ii)Describe the features you based on to determine the sex (2 marks) (a) Observe the left lateral view of the abdomen. Draw and label the observed features.(7marks) (d)Cut off the legs, antennae, and the wings. With the ventral facing the dissecting board, cut along the right lateral, open the cuticle and pin on the other side. Stretch out the alimentary canal and pin it on your right. Draw and label the circulatory system and structures used for food digestion and absorption only on the same drawing. (17 mark)						
1	(a) Use a speed-time graph to show that $S = ut + \frac{1}{2}at^2$, where S is distance covered. In a time, interval, t, acceleration, a, and u is initial velocity of the body. (4marks) (b) Apply the dimensional argument on the equation in 1(a) above to check whether its Dimensionally consistent or not. (2marks) (c) The period of vibration of a liquid drop is given by $T = K\phi^x \beta^y \Omega^z$ where K is a dimensionless constant, ϕ is the radius of the drop, β is the density of the liquid drop and Ω is the surface tension of the liquid drop whose dimensions are MT^{-2} . Use the Dimensional analysis to find the values of x , y and z . Hence rewrite the equation above and simplify it algebraically. (4marks) (d) 1N A block of mass 200g is acted upon by a series of forces as shown below: Find the resultant force and hence the acceleration of the block.	20mks					
2	 (i) State the law of electrostatics (ii) Explain how a gold leaf electroscope can be charged negatively by induction. (iii) State four uses of a gold leaf electroscope. (iv) Describe how a lightening conductor can prevent a house from lightening (v) Define an electric field. (vi) State three properties of electric field lines. (vii) State coulombs law of electrostatics. (viii) Two-point charges A and B of 47.0 μC and 24.0 μC respectively placed in a vacuum at a distance of 30cm apart. When a third charge C of -35.0 μC is placed between A and B at a distance of 20cm from A, Find the net force on C 						
1	1.a) Differentiate between a command and laissez faire economy (02mark)(b) Give the salient features of the command economy. (06marks)(c) Explain the implication of command Economy. (12 mark)	24mks 20mks					
2	2.Discuss the benefits and costs of economic growth.						
1	How did Egyptian revolution contribute to the development of African Nationalism ?	25mks					
3	 Examine the causes and consequences of the 1793 reign of terror in France. (25mks) Assess the achievements of the National Assembly in the history of France between 1789-1792(25mks) 						
	2 3 1 2 1 2	 (b) Explain the different functions of Iysosome in the life of an organism (6marks) 2 (c) Outline the using the features of a hacterium.(4marks) (d) Discuss the diversity of different bacteria in relationship to their mode of living. (10 marks) (e) Outline the economic importance of kingdom monera(06 marks) (f) Discuss the diversity of different bacteria in relationship to their mode of living. (10 marks) (g) Outline the economic importance of kingdom monera(06 marks) (h) Discuss the diversity of different bacteria in relationship to their mode of living. (10 marks) (g) Clusteria (10 class (ii) phylum (3 marks) (h) Disserribe the features you based on to determine the sex (2 marks) (a) Observe the left lateral view of the abdomen. Draw and label the observed features (7marks) (d) Clust off the legs, antennae, and the wings. With the ventral facing the dissecting board, cut along the right lateral, open the cuticle and pin on the other side. Stretch out the alimentary canal and pin it on your right. Draw and label the circulatory system and structures used for food digestion and absorption only on the same drawing. (17 mark) (a) Use a speed-time graph to show that S = ut + ½ at², where S is distance covered. In a time, interval, t, acceleration, a, and u is initial velocity of the body. (4marks) (b) Apply the dimensional argument on the equation in 1(a) above to check whether is Dimensionalls consistent or not. (c) The period of vibration of a liquid drop is given by T = KØx³β²Ω² where K is a dimensionless constant, 0 is the radius of the drop, B is the density of the liquid drop and Ω is the surface tension of the liquid drop whose dimensions are MT⁻². Use the Dimensional analysis to find the values of x, y and z. Hence rewrite the equation above and simplify it algebraically. (4marks) (ii) Explain how a gold leaf electroscope. (iv) Describe how a lightening conductor					

SUBJECT		CHALLENGE						
	1	 (a) Discuss the features of <i>entrepreneurial</i> motivation.(8mks) (b) Explain the factors that <i>hinder entrepreneurial</i> motivation (14marks) (c) Discuss the classical concepts of entrepreneurial motivation (08mks) 						
ENTREPRENEURSHIP	2	You are planning to start a carpentry workshop in your hometown (a) Identify the requirements for the business start-up (5mks) (b) Explain the benefits of the business to the community (8mks) (c) What challenges are likely to be faced during business operation? (6mks) (d) How can self employment be promoted in Uganda? (6mks)						
	3	Visit any business in your home area (a) Give the general description of the business (4mks) (b) How does the business promote its products? (8mks) (c) What challenges are faced by the business? (7mks) (d) Explain the benefits the business derives from the society 6mks)						
FINE ART	1	Task I- Research and make Notes on the ELEMENTS and PRINCIPLES of Art and Design. Use illustrations where possible. Task II- Paint an original imaginative composition in colour based on the subject given below. Bear in mind the quality of composition, imagination, feeling, drama, and originality rather than a literal interpretation, are the main objectives of this paper. Topic: "What a Day!"						
	1	1 (a) Discuss the Burning Bush incident (the call of Moses) (b) What was the relevance of the incident to the israelities? 13 marks 12 marks	25mks					
DIVINITY	2	1.(a)Examine the format of the Early church oral proclamation by the Apostles. (13 marks) (b) Explain the effects of the above message to the early church believers. (12 marks)						
	3	1 (a) Account for the fact that preaching the gospel is becoming more expensive today? 13 mks (b) Explain reasons why the gospel is less productive today? 12 mks						
LITERATURE	RATURE Read the following poem carefully and answer the questions that follow: QUESTIONS: 1. Briefly explain the subject matter and theme of the poem. (4marks) 2. What is the attitude of the persona towards the woman? (4marks) 3. Describe the character of the: a)Persona (3marks) b)Woman (3marks) b)Woman (3marks) 4. Identify and discuss major poetic techniques that the poet uses a show their effectiveness in poem. (12marks) 5. The persona refers to the woman as "the woman I married" inste "my wife" What does this suggest about their relationship? (2marks) Edwin Waiyaki 7. What are your feelings towards the: a)The woman ((2marks) (b)The persona (2marks)							
 1. Do you like the ending of the play; Oedipus The king? Explain your reasons clearly on the play. Write the plot and story of part 3-5 in the moon also sets. 								
	1	1.(a) Account for the occurrence of faulting in east Africa?(b) Describe the formation of any one land form resulting from faulting in east Africa?						
	2	Evamina the impact of forest destruction to the environments of Tropical African states						
GEOGRAPHY	3	 Describe the processes for the formation of drainage features (LAKES) in Uganda (25marks) Explain the contributions of lakes to the development of Uganda (25marks) 						

Assessment Percentage rank for term two

	Holiday work	Mid-term exam	End of term exam	FINAL MARK
Mid-term report	20%	80%		100%
End of term repot	10%	30%	60%	100%