KENYA NATIONAL EXAMINATION COUNCIL REVISION MOCK EXAMS 2016 TOP NATIONAL SCHOOLS

MANG'U HIGH SCHOOL HIGH SCHOOL
COMPUTER STUDIES
PAPER 1

SCHOOLS NET KENYA

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MANG'U HIGH SCHOOL KCSE TRIAL AND PRACTICE EXAM 2016

451/1

COMPUTER STUDIES

PAPER 1

(Theory)

16.

follows

Less than 10 hours @ khs.100/= per hour Up to 15 hours @ khs150/= per hour

More than 15 hours @khs200/= /per hour

TIME 2½ HOURS.

SECTION A: (40 MARKS)

Answer ALL the questions in this section

	1.	State t		inology used in the following computer generations	(2mk	s)	
			i)	4 th generation:			
			ii)	1 st generation:.			
			lii)2 nd generation:			
			iv)	3 rd generation:			
2.				ne two areas that should be considered when catego	=	k)	
3.				any three disadvantages of a magnetic diskette.	(3mks)		
		4.	a)	Define the data processing.	(1mk)		
			b)	Explain two characteristics of good information.	(2ml	•	
		5	Distin	guish between data verification and data validation.	(2m)	ks)	
		6.	Descri	be the following menu tools as used in Ms. Word	(2ml	ks)	
			i)	Print layout:			
			ii)	Web layout:			
		7.	Define the following terms as used in mail merging (4mks)				
			i)	Main document:			
			ii)	Data source			
		8.	a)	Difference between real –time system and online sy	stems. (2ml	ks)	
			b)	Explain how information and communication techn	ology has contribute	ed to teaching	
				and learning in schools.	(2ml	ks)	
		9.	a)	State the use of the following network devices.	(2ml	ks)	
			i)	Network interface cards			
			ii)	Routers			
			iii)	Distinguish between thinnet and thicknet coaxial ca	bles. (2mks)		
		10.	Conve	rt (111.010 ₂) to decimal number.	(3mks)		
		11.	Explai	n the type of errors that are likely to exist in a progra	am? (4mks)		
		12.	State t	three ways in which ICT can be used in industrial con	trol. (3mks)		
		13.	State t	wo reasons why it is necessary to have well connect	ed and proper cable	es in a	
			compu	iter lab (2mks)			
		14.	What	do you understand by the term 'soft system" in a sy	stem development?	? (1mk)	
		15.		is a relational database	(1ml		
			Anous	SECTION B (SO MADES)			
			AIISWE	er SECTION B (60 MARKS)			

question 16 and any other THREE questions from this section in the spaces provided

Mumias sugar company pays casual employees based on the number of hours worked as

- a) Write a pseudo code to input the name, rate hours worked. The pseudo code should output the name, hours worked and the wage paid. (6mks)
- b) Draw a flowchart for the above pseudo code . (5mks)
 - c) Write brief notes on structured programming (4mks)
 - 17 a) List **four** characteristics of a system (2mks)
 - b) Give any **three** circumstances that may make an organization to develop a new information system (3mks)
 - c) Study the spreadsheet below and answer the questions that follow

	Α	В	С	D
1	WESTLINK COM	S CENTRE		
2	TITLE	PRICE	NO. SOLD	COST
3	Computer longhorn book2	320	25	
4	Visual basic (6) turbo	820	21	
5	Computer longhorn book4	350	100	
6	Computer science	900	12	
7	Computer Applications	845	36	
8	Computer hardware	1250	10	
9	Computer software	1250	27	
10				

- i) Write down the formula used to find the price of the cheapest book.(1mk)
- ii) Write down the formula used to determine the total sales for the book titled' computer applications (1mk)
- iii) Write down the formula used determine the average price of the all books (2mks)
- d) State any **four** advantages of using an electronic spreadsheet as compared to a traditional spreadsheet (2mks)
- e) Differentiate between a column chart and a bar chart as used in spreadsheets (4mks)
- f) Define the term gutter in relation to column setting in DTP (1mk)
- 18. a) Name and describe four main application areas of artificial intelligence in ICT (12mks)
 - b) State **three** advantages of automated production in manufacturing industries (3mks)
- a) Describe any **two** roles of the following career opportunities in the ICT field. (8mks)
 - i) Systems analyst
 - ii) Information system manager
 - iii) Network administrator
 - iv) Computer trainer
 - b) Distinguish between a primary key and a foreign key as used in DBMS. (2mks)
 - c) What do the term header and footer mean? (2mks)
 - d) What do you understand by the terms attenuation and baseband signal.

(2mks) (3mks)

- 20. a) Define the following terms.
 - i) Record
 - ii) File
 - iii) Database
 - b) i) List any **three** ways of dealing with a virus on a computer. (3mks)
 - ii) Explain the functions performed by (2mks)
 - a) The control unit
 - b) Arithmetic and logic unit (ALU)
 - c) Convert the 522⁸ to its base 10 equivalent (2mks)
 - d) Using long division methods convert 67₁₀ into binary. (2mks)
 - e) Outline **three** disk management activities. (3mks)