KENYA HIGH SCHOOL

POST MOCK EXAMINATIONS COMPUTER PAPER 1 FORM 4, 2021

Kenya Certificate of Secondary Education

SECTION A (40 MARKS)

Answer all questions from this section in the spaces provided 1. List the components of a computer system hardware. (2 Marks) 2. Describe the term key to storage systems (1 Mark) 3. One classification of software is system software (a) i. What is meant by system software (1 Mark) ii. Give one example of system software. (1 Mark) (b) i. Name one other software classification (1 Mark) ii. Give one example of this type of software (1 Mark) a. What do you understand by the term database management system? (DBMS)? b. Define the following terms as used in a database. (2 Marks) i. Primary Key ii. Record

(3 marks)

11. Computers have evolved through a number of generations. List any three characteristics of the first

generation of computers.

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12. I	List four formatting techniques used in Ms excel	(2
ľ	Marks)	
13 I	List four examples of flat panel displays.	(2
		(2
Ι	Marks)	
•		
•		
-		
14. I	Explain the following terms as used in the word processing.	(4 Marks)
8	a. Indenting	
_		
	b. Alignment	
	o. Angilinent	
	•	
C	c. Footnote	
•		
C	d. Endnote	
	Describe the role of an operating system in	
1	i. Memory management	
•		
•		
i	ii. Job scheduling	

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	iii. Error handling
	··
	iv. Resource control
	··
	SECTION B (60 MARKS)
16.	a. State the three basic types of program control structures. (3 Marks)
b.	Draw a flowchart which will simulate the processing of student's report. The simulation should be such that the user repeatedly inputs marks per subject for six subjects using a looping control structure. The computer processes the total marks and mean score of the student. NOTE: 1. It is assumed that the student does six subjects 2. The output required are: Average score and total marks
c.	Differentiate between analogue and digital data. (2 Marks)
d.	Outline three advantages of using computers for data processing over other types of office and business equipment.

17.	a. i.	Convert the following numbers to their decimal equivalent. 11.011 ₂	(6 Marks)	
	ii.	12.15 ₈		
	iii.	A3.3/ ₆		
	b.	Outline four ways in which data integrity may be maintained.	(4 Marks)	
18.				
	c.	Explain four advantages of using questionnaires as a fact finding tool.	(4 Marks)	
	d. '	What is the role of a recycle bin?	(1 Mark)	
	Ide	a. Masai teacher's college has decided to automate its library for effective services to the students. Identify four methods they are likely to use to gather information during system development. (4 Marks)		
	b. i.	What do the following terms mean in relation to internet? Downloading	(4 Marks)	

	••	
	ii. Hyperlink	
	·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	
	iii. Web browsers	
		••••••
	(iv)Internet service providers	
	c. Differentiate between sorting and filtering as used in electronic spreadsheet program Marks)	(2
d.	What do the following terms mean	
	i. Spam mail	
	ii. Disk	
	iii. Onboard moderm	
	e. What does the term WIMP mean as used in computing?	
19	. (a) Define a database model	(1Mark)
	b. List four advantages of using database systems	(2marks)

c.	latabase. Differentiate the following types of integrity constraints:	
	Validity integrity	(1mark)
	Entity integrity	(1mark)
	Referential integrity	(1mark)
	Briefly describe the three database models	(3 Marks)
•••		
	Using diagrams describe the following three types of relationships. (3Marks)	
i.	One – to – one	
ii.	One – to – many	
iii.	Many – to – many	
f.	File organization refers to the arrangement of records on secondary storage. Briefly	y describe the
i.	following file organization methods. Serial	(3 Marks)
ii.	Sequential	
iii.	Random	

). a.	Your School has decided to replace its library control system. The current system was	implemented
tei	n years ago but has restricted reporting facilities and has a text – based interface. The sc	chool intends to
rej	place the old system with a new computerized system, and is now considering both 'par	rallel running '
an	d 'direct changeover'	
i.	Briefly explain the terms parallel running and direct change over as used in system im	plementation. (2
	Marks)	
ii. 	Give two disadvantages of direct changeover overparallel running	(1 Marks)
	. Identify two main risks of direct changeover during system implementation	(2
M:	arks)	
	Montion any two advantages of maning both the manual system and the commutative	
1V.	Mention any two advantages of running both the manual system and the computerized simultaneously	(2 Marks)
b. 	i. What is a website? (2 marks)	
 ii.	Name three facilities that are needed to connect to the internet.	(3 Marks)
c.	State three ways students can benefit by having internet in a school (3 Marks)	

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