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451/1 Computer Studies

NAME:	INDEX NO:
SCHOOL:	CANDIDATE'S SIGN
	DATE:

451/1 **COMPUTER STUDIES** PAPER 1 July/August 2015 2 Hours

NAROK SOUTH SECONDARY SCHOOLS JOINT EXAMINATION **COMPUTER STUDIES**

Kenya Certificate of Secondary Education (K.C.S.E) PAPER 1

INSTRUCTIONS TO CANDIDATES:

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaced provided. ii)
- Answer all questions in section A. iii)
- Answer 16 and any other three questions from section B. iv)
- All answers should be written on the question paper in the spaces provided below each question.

SECTION	QUESTION	SCORE
A	1 - 15	
	16	
_	17	
В	18	
	20	

This paper consists of 12 printed pages Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.

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(a)	Distinguish between a mouse pointer and an insertion point.	(2 marks)
(b)	Differentiate between COM ports and LPT ports.	(2marks)
Diffe	erentiate between a footnote and an endnote as used in ms-word.	
The	magnitude of number is evaluated using 3 parameters. State the parameters.	(3 marks)
(a)	What is data processing cycle?	(2 marks)
(b)	Why is it referred to as a cycle?	(1 mark)
Defin	ne the following terms as used in data communication: Attenuation;	(3 marks)
(ii)	Band width;	

(c)	List three types of documentation used during program documentation.	(3 marks)
(a)	List two devices used in wireless communication.	(2 marks)
(b)	State and explain any three communication devices.	(6 marks)
(c)	State four functions of network operating systems.	(4 marks)
(d)	With the aid of a diagram, describe the mesh topology.	(3 marks)
(a)	List and explain three changeover strategies used in system development.	(6 marks)
(b)	State the stage of system development life cycle in which each of the activities by	pelow take
	place:	(3 marks)
(c)	Differentiate between share level security and user level security as used in network	vork security.
		(2 marks)
(d)	List three examples of protocols found at the application layer of OSI model.	(3 marks)
(a)	Differentiate between the following pairs of terms:	
	(i) Videotex and teletext;	(2 marks)
	(ii) Computer aided design and computer aided manufacturing.	(2 marks)
(b)	What is virtual reality?	(2 marks)
(c)	List four interactive sensory equipment used in virtual reality.	(4 marks)
(d)	What is telecommuting?	(2 marks)
(e)	State three advantages of telecommuting.	(3 marks)
(a)	What is an expert system?	(2 marks)
(b)	State and describe three components of an expert system.	(6 marks)
(c)	Using two's compliment, subtract 13io from 10io	(4 marks)
(d)	Convert the decimal number 0.64 to 6 bit binary notation.	(3 marks)
	(a) (b) (c) (d) (a) (b) (c) (d) (e) (a) (b) (c)	(a) List two devices used in wireless communication. (b) State and explain any three communication devices. (c) State four functions of network operating systems. (d) With the aid of a diagram, describe the mesh topology. (a) List and explain three changeover strategies used in system development. (b) State the stage of system development life cycle in which each of the activities by place: (c) Differentiate between share level security and user level security as used in network of the activities of place: (d) List three examples of protocols found at the application layer of OSI model. (a) Differentiate between the following pairs of terms: (i) Videotex and teletext; (ii) Computer aided design and computer aided manufacturing. (b) What is virtual reality? (c) List four interactive sensory equipment used in virtual reality. (d) What is telecommuting? (e) State three advantages of telecommuting. (a) What is an expert system? (b) State and describe three components of an expert system. (c) Using two's compliment, subtract 13io from 10io

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(iii)	ii) Multiplexing.		
(a)	List three major elements of networking.	(1 ½ marks)	
(b)	State three advantages of fiber optic cables.	(1 ½ marks)	
Diffe	erentiate between the following terms:	(2 marks)	
(i)	Syntax and logical errors		
(ii)	Interpreter and compiler.		
(a)	List three error detection methods.	(1 ½ marks	
(b)	State three theories of system development.	(1 ½ marks	
Lists	six layout components available in a PageMaker application window.	(3 marks)	
•••••			

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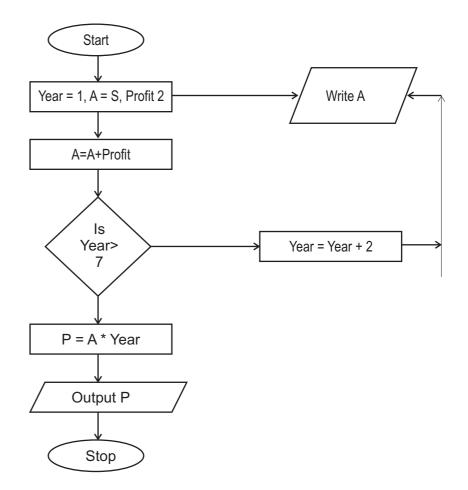
3

10.	Differentiate between tracking and kerning as used in DTP.	(2 marks)
		•••••
11.	List four examples of action queries.	(2 marks)
		••••••
		•••••
12.	Highlight three responsibilities of a computer programmer.	(3 marks)
13.	State two major uses of entired dieles	(2 marks)
13.	State two major uses of optical disks.	(2 marks)
14.	What is an interrupt?	(1 mark)
	-	
		•••••
15.	Define the term multimedia.	(1 mark)

SECTION B:

Answer question 16 and any other three questions in this section.

16. Study the flowchart below and answer the questions that follow.



(a) List the various outputs from the flowchart above. Show your working. (6 marks)

(b) Write a pseudo code for the flowchart. (6 marks)

Start Year = 1, A = S, Profit 2 A=A+Profit	Write A
Is Year> 7 P = A * Year	Year = Year + 2
Output P Stop	