

Name Index No.

511
COMPUTER STUDIES

Paper 1
(Theory)
July-August 2014
Time: 2½ Hours

Candidate's signature

Date

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WESTLANDS FORM 4 JOINT EXAMINATION Kenya Certificate of Secondary Education

COMPUTER STUDIES

Paper 1

July/August 2014

Time: 2½ Hours

INSTRUCTIONS TO CANDIDATES

- * Write your name and your index number in the spaces provided above.
- * Sign and write date of examination in the spaces provided above.
- * This paper consists of two sections A and B
- * Answer all questions in section A
- * Answer question 16 and any other three questions from section B
- * All answers should be written on spaces provided on the question paper.
- * This paper consists of 12 printed pages.
- * Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

For Examiner's Use Only

Section	Question	Candidate's score
A	1 - 15	
B	16	
	17	
	18	
	19	
	20	
Total marks	20	

SECTION A (40 Marks)

Answer all the questions in this section in the spaces provided.

1. a) Copying software should be a breach of software copyright. Explain the purpose of software copyright. (2 marks)

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- b) Give two ways of controlling software piracy. (2 marks)

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2. A college has a network computer used for management purposes. Only a few people are allowed access to the network.

- a) State two methods to prevent unauthorised access to the network. (2 marks)

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- b) People who are authorised to access the network might not be allowed access to all management data. Describe a method to restrict their access to the data. (2 marks)

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3. Explain the following four computer terms :

- a) buffer

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- b) batch processing

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c) e-commerce

d) e-mail

4. A company making televisions has introduced robots to replace the human work force.
a) Describe two effects this would have on the work force. (2 marks)

b) Give two advantages to the company of introducing robots. (2 marks)

5. Give four features of a Data Protection Act. (4 marks)

6. Booking seats on an aeroplane can be done by the internet.
a) Give two advantages of using the Internet rather than making telephone call for this task. (2 marks)

b) What type of file access would be needed to make a booking ? Give a reason for your choice. (2 marks)

Type of access

Reason for choice

7. A small company runs six cars in its fleet. They have produced a spreadsheet to compare running costs over a five month period.

	A	B	C	D	E
	Car Identity	Total number of km	Cost per km (\$)	Total cost (\$)	Average cost per month (\$)
	10001	30 000	1.00	30 000	6 000
	10002	20 000	4.00	80 000	16 000
	10003	50 000	1.50	75 000	15 000
	10004	20 000	2.00	40 000	8 000
	10005	30 000	2.50	75 000	15 000
	10006	30 000	1.50	45 000	9 000
		Averages	2.08	58 907	11 781

- a) It was decided to print out the spreadsheet formulas from D2 to E8. Using the grid below, show what formulas would be printed. (4 marks)

	D	E
	Total cost (\$)	Average cost per month (\$)
1		
2		
3		
4		
5		
6		
7		
8		

- b) The data in cell C6 was changed to 3.00. Which cells would be updated automatically? (1 mark)

8. Systems can be described as soft or hard. Give one example of a hard system. (1 mark)

9. Write each of the following acronyms in full as used in computing. (2 marks)

a) BIOS

b) CMOS

c) RISC

d) CISC

10. The factory needs to buy a new printer. It has decided to buy either a dot matrix printer or an inkjet printer. Discuss the advantages and disadvantages of using both types of printer in this application. (2 marks)

11. A factory uses a computer system to store information about customers, spare parts and general administration. Spare parts can be identified by selecting from diagrams on a computer screen. Describe what hardware would be needed to allow the parts to be selected in this way. (1 mark)

12. The removal company has decided to create a database to store information on customers and quotations. The database will have two tables, CUSTOMER and QUOTATION. The QUOTATION table requires a foreign key. What is meant by a foreign key? (1 mark)

13. Name and draw two common types of network topology. (2 marks)

14. A company employs people with physical disabilities in the office. Describe an input device an employee who does not have use of their arms could use. (2 marks)

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15. Computer memories are measured in terms of the number of bytes.

a) i) What is meant by the term byte ?

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ii) What is meant by a Gigabyte ?

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b) Flash memories and CD-RWs are used as backing media for computers. Give two differences between these two media. (2 marks)

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