Name:	Index No.	
2205/306	Candidate's Signature	e:
COMPUTER APPLICATIONS		
Oct./Nov. 2014	Date:	
Time: 3 hours		· — — · · · · · · · · · · · · · · · · ·
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THE KENYA NATIONAL EXAMINATIONS COUNCIL

DIPLOMA IN COMPUTER STUDIES

COMPUTER APPLICATIONS

3 hours

INSTRUCTIONS TO THE CANDIDATE

Write your name and index number in the spaces provided above.

Sign and write the date of the examination in the spaces provided above.

You should have drawing instruments for this examination.

All your answers should be written in the spaces provided in this question paper.

Answer any FIVE of the EIGHT questions given in this paper.

All questions carry equal marks.

Maximum marks for each part of a question are as indicated.

Do NOT remove any pages from this booklet.

Candidates should answer the questions in English.

For Examiner's Use Only

Question	1	2	3	4	5	6	7	8	TOTAL SCORE
Candidate's Score									

This paper consists of 20 printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

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Turn over

- Outline three reasons that may influence an organization to incorporate the use of computers in its operations.

 (3 marks)
 - (ii) Describe each of the following terms as used in computer applications:
 - operating systems;
 - utility programs.

(4 marks)

- (b) Outline the effect of pressing each of the following computer keyboard combination keys in a windows environment:
 - (i) Ctrl + Esc;
 - (ii) Ctrl + Alt + Delete.

(2 marks)

(c) Figure 1 is an extract of text from a word processing program. Identify six text formatting features applied in the extract.

CLOUD COMPUTING

The term cloud computing is used to explain the future of the web. It is a model for enabling convenient, on-demand network access to a shared pool of configurable computers.

There are several types of clouds that include:

- > Public
- > Private
- > Community
- Hybrid

An organization may choose one of the types of clouds outlined above inorder to utilize its power.

Fig. 1

(3 marks)

(d) Table 1 is an extract of a worksheet showing details of cars sold by a particular company.

Table 1

	Car Model	Cost	Duty	Insurance	Total Cos
	Premio	574,000			
	NZE	450,000		· · · · · · · · · · · · · · · · · · ·	
	Wish	600,000	·····		
1	Vitz	435,000			
	Average		·		
	Duty	30%			
(111)	Insurance premium	7.5%			

- (i) Using cell referencing only, write a formula that could be used to compute:
 - I. duty payable for the model Premio;
 - II. insurance premium for the model Premio;
 - III. average cost for all cars.

(6 marks)

- (ii) Describe a feature that could be used to compute the duty payable for the other car models based on the premio's duty. (2 marks)
- (a) (i) State two equipment that could be used to reproduce a document in an office. (2 marks)
 - (ii) List two computer keyboard keys that could be used to toggle between two
 effects. (2 marks)
 - (b) (i) Explain each of the following terms as used in spreadsheet programs:
 - automatic recalculation;
 - II. what if analysis.

(4 marks)

- (ii) With the aid of an example in each case, describe each of the following cell referencing methods:
 - range reference;
 - referencing using labels.

(4 marks)

(c) Table 2 shows students' examinations results in a database program. Table 2

Name	Course	Intro	CA	QM	1.O.M	Grade
Joshua	IT	40	50	60	45	Pass
Carol	FB	60	70	50	80	Credit
Cate	17	80	85	70	90	Distinction
John	FB	50	55	52	60	Pass

Write an expression that would be used to extract each of the following:

- (i) students whose grade is "Pass";
- (ii) students taking IT and whose name start with "J".

(4 marks)

(d) Distinguish between cropping and cutting as used in desktop publishing programs.

(4 marks)

3. (a) (i) Explain the term bookmark as used in word processing programs.

(2 marks)

(ii) With the aid of a sketch in each case, distinguish between hanging and left indents as used in word processing.

(4 marks)

(b) (i) With the aid of a diagram, identify three groups of keys in a computer keyboard.

(3 marks)

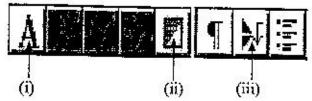
(ii) Distinguish between a diary and a scheduler as used in computer applications.

(4 marks)

(c) With the aid of a sketch in each case, distinguish between pie and doughnut charts as used in spreadsheet programs.

(4 marks)

(d) Figure 2 shows typical tools in a desktop publishing program toolbar. Outline the function of each of the features labeled (i), (ii) and (iii). (3 marks)



- 4. (a) State three approaches that could be used to transfer data from one application program to another. (3 marks)
 - (iii) State the file extension for documents created using each of the following application programs:
 - spreadsheet;
 - desktop publishing.

(b) Figure 3 shows an orthographic view of an object created in a CAD system. Draw the isometric view of the object. (6 marks)

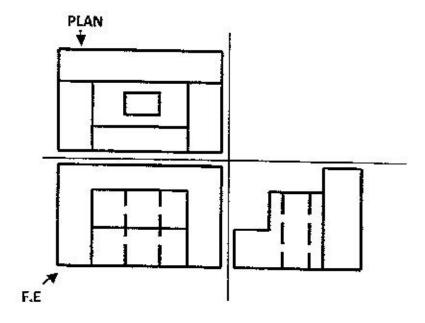


Fig. 3

- (c) (i) Distinguish between accounting and bookkeeping as used in financial programs. (4 marks)
 - (ii) John is a new employee in a government organization. After receiving his first salary he realized that it was less than what he had negotiated for. On enquiry he was informed that there are some mandatory deductions. Outline three of these deductions. (3 marks)
- (d) Explain two advantages of a tracking system in the transport sector. (2 marks)

5.	(a)	(i)	State four object snap modes associated with a line in CAD systems.	(2 marks)				
		(ii)	Explain each of the following terms as used in CAD systems:					
			I. actrecord; == II. draworder.					
				(4 marks)				
	(p)	(i)	Explain the term simulation as used in computer applications.	(2 marks)				
		(ii)	State four modules that could be included in a hotel management system.	(2 marks)				
	(c)	regist dama inform	ence was given a gift of a car by her father on her 18th birthday. The car sered in her name. Later she was involved in a road accident and the vehiged. When she approached the insurance company for compensation shad that she could not be compensated. Describe the most appropriate in the company could have applied.	icle was e was				
	(q)	(i)	Distinguish between multi-user and distributed operating systems as computer application.	used in (4 marks)				
		(ii)	Describe each of the following functions of an operating system:					
			I interrupt;					
			II. scheduling.					
6.	(a)	(i)	Define the term concurrency as used in a computer system.	(4 marks) (2 marks)				
		(ii)	Outline two conditions that could lead to a deadlock in a computer system.	(2 marks)				
	(b)	(i)	Distinguish between spooling and buffering as used in computer memory management.	(4 marks)				
		(ii)	Explain each of the following terms as used in desktop publishing pr	rograms:				
			I. kerning;					
			II. character map.	74d.a				
				(4 marks)				
72	(c)	the a	certain institution intends to install computer systems in one of the vacant rooms in administration block's basement. Explain two precautions that the institution should be to protect the computers against damage from rain water.					
		IARE	to brotect me combiners against anyongs man in-	(4 marks)				
	(d)		Leompany limited, a local car assembling company has incorporated the company in its assembly line.	ne				
		(i)	Outline two advantages of this move to the customers;					

	(ii)	Explain two reasons that could influence the employees to resist this move.					
			± 1 ± 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	(4 marks)			
(a)	(i)	State two disadvantages of having multimedia enabled computers in organization.					
	(ii)	Outline the effect of pressing each of the following set of keys in an application program:					
		I.	ALT + F;				
		И.	CTRL + V;				
		III.					
		IV.	ALT + E.				
				(4 marks)			
(b)	The g	overnm led with	nent intends to equip all secondary schools with computers a school management system.				
	(i) (ii)	Outlin	ne two challenges the government is likely to face during the				
				(4 marks)			
(c)	Explain two reasons that could have influenced the current trend of using flash memory.						
(d)	Expla	in each	of the following terms as used in CAD systems:	**************************************			
	(i)	view;					
	(ii)	layer;					
	(iii)	patter	ning.	(6 marks)			
	(b)	(a) (i) (ii) (ii) (ii) (ii)	(a) (i) State organ (ii) Outline applied it. II. III. IV. (b) The government installed with (i) State (ii) Outline imple imple imple (c) Explain two memory. (d) Explain each (i) view; (ii) layer;	 (a) (i) State two disadvantages of having multimedia enabled computers in organization. (ii) Outline the effect of pressing each of the following set of keys in an application program: I. ALT + F; II. CTRL + V; III. CTRL + O; IV. ALT + E. (b) The government intends to equip all secondary schools with computers installed with a school management system. (i) State two advantages of this move to the management; (ii) Outline two challenges the government is likely to face during the implementation of this project. (c) Explain two reasons that could have influenced the current trend of using flamemory. (d) Explain each of the following terms as used in CAD systems: (i) view; (ii) layer; 			

- 8. (a) (i) Explain the term *clipboard* as used in word processing programs. (2 marks)
 - (ii) Figure 4 shows typical tools in a desktop publishing program toolbar. Outline the function of each of the features labeled I and II. (2 marks)



Fig. 4

- (b) The finance officer of Successo Academy is contemplating preparing a financial statement showing all the assets and liabilities of the school.
 - (i) Identify the financial statement to be prepared.
 - (ii) Explain two uses of the financial statement identified in (i).

(5 marks)

- (c) (i) Outline three advantages of paying for goods through mobile money transfer services. (3 marks)
 - (ii) Distinguish between invoice and cash sale receipt as used in financial programs. (4 marks)
- (d) Figure 5 shows two sets of objects A & B created using a desktop publishing program. In each set, (i) is the original object and (ii) its corresponding image after manipulation. For each of the objects, outline the feature used in the manipulation. (4 marks)

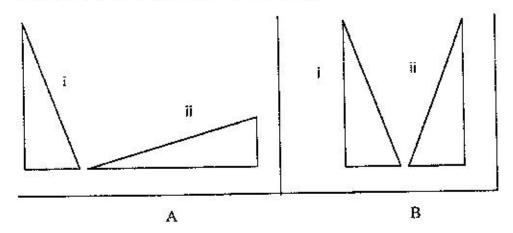


Fig. 5