



KIBABII UNIVERSITY COLLEGE

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UNIVERSITY REGULAR EXAMINATIONS

2013 /2014 ACADEMIC YEAR

2ND YEAR 2ND SEMESTER EXAMINATIONS

(MAIN EXAMINATION)

BACHELOR OF SCIENCE

IN INFORMATION TECHNOLOGY

COURSE CODE: CSC 109

COURSE TITLE: Computer Applications

DATE: 28TH APRIL,2014

TIME: 2:00P.M. – 5:00P.M.

INSTRUCTIONS TO CANDIDATES:

Attempt question **ONE (1)** and **ANY TWO (2)** other questions from section B.

Question #1 [30 Marks-Compulsory]

- a) Explain the following terms [4 Marks]
 - i) Utility software
 - ii) Device drivers
 - iii) Operating system
 - iv) Bug
- b) Explain any FOUR Software utilities [4 Marks]
- c) The management of a certain business firm is really thinking of how to automate its activities so that they can benefit from the various benefits information systems come with. In your own thinking, do you agree with them? Justify your reasoning [4 Marks]
- d) Explain THREE main functions of an operating system. [6 Marks]
- e) Distinguish between systems software and applications software. [2 Marks]
- f) Explain any three services that the Internet offers to our society [3 Marks]
- g) Explain how you will be able to add drop cap to a paragraph in a word document [3 Marks]
- h) Define the following terms;
 - i. Directory [2 marks]
 - ii. Network Operating system [2 marks]
 - iii. Primary key [2 Marks]

Question #2 [20 Marks]

- a) An employees' database comprises of employees' details table and payments made table as shown below:

EMPLOYEES' DETAILS TABLE

Surname
Middle Name
First Name
Employment Number
Department
Date

PAYMENTS MADE TABLE

Employment Number
Date
Amount
Receipt Number

- (i) State the primary key for each table. [2 marks]
- (ii) State the field which should serve as the field for the two tables. [2 marks]
- (iii) Give two examples of database systems [2 marks]
- b) State any four database tools used in development of databases [4 marks]
- c) A head teacher keeps the following student details in a database: Name, Date of Birth, Marks scored, Fees paid.

(i) For each item in the student's details above, indicate its most appropriate data type as used in the database. [4 marks]

(ii) Explain why input screens are better data entry designs than entering data directly to a table. [3 marks]

b) Distinguish between a primary key and a foreign key giving an illustration [3 marks]

Question #3 [20 Marks]

a) Explain the meaning of the following terminologies: [4 Marks]

i. Word processing

ii. Word wrap

b) Describe how you could carry out the following tasks

(i) Mail merging [3 Marks]

(ii) 4-Column and 5- Rows [3 Marks]

c) Word processing packages allow users to do a number of interesting functions due to a number of features it offers. Explain any FOUR features of Ms Word processor

[4 Marks]

d) Explain the following terms

(i) A spreadsheet and workbook [2 marks]

(ii) Autosum and Auto fill [2 marks]

(iii) Function and formula [2 Marks]

Question #4 [20 Marks]

b) Explain Three ways we can categorize various computers [6 Marks]

c) Explain the difference between hard copy and softcopy [2 Marks]

d) Distinguish between Browser and Search engine [3 Marks]

e) Explain any FIVE services of the Internet [5 Marks]

f) Explain the difference between hardware and software [2 Marks]

g) State and explain any FOUR characteristics of computers [4 Marks]

Question #5 [20 Marks]

a) Define the following terms [3 Marks]

i. Spreadsheet

ii. Worksheet

iii. Autofill

b) Distinguish between *relative* and *absolute referencing* [2 Marks]

d) The formula =B2+A3 is located in cell B3. If this was copied and pasted into cell D4 what would be the resulting formula: Briefly explain your answer. (4 Marks)

	A	B	C	D
1	2	4	5	5
2	3	3	4	6
3	5	=B2+A3	3	8
4	4	3	4	?????????

e) Use the following Excel Spread sheet to answer the questions that follow:

	A	B	C	D
1	Subject	Score	Grade	
2	Maths	79		
3	English	81		
4	Kiswahili	66		
5	Social Studies	69		
6	Science	89		
7	Total Score			
8	Average Score			
9				
10				
11				
12				
13				

i. Write the function that you would write to calculate the pupil's total score [2 Marks]

ii. In which cell would you write the above function [1 Marks]

iii. Write a function that would calculate the pupil's average score [2 Marks]

iv. Write a function to assign the grade for Maths score based on the following scales: [3 Marks]

75 – 100	A
60 – 74	B
50 - 59	C
40 - 49	D
0 - 39	E

v. Explain how one would apply the function written above for the other subjects [2 Marks]