

# **KIBABII UNIVERSITY COLLEGE**

(A Constituent College of MasindeMuliro University of Science Technology)

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# UNIVERSITY REGULAR EXAMINATIONS 2012 /2013 ACADEMIC YEAR

# FOR THE CERTIFICATE IN INFORMATION TECHNOLOGY

COURSE CODE: ITC 012

COURSE TITLE: INTRODUCTION TO ICT

# **INSTRUCTIONS**

Answer question one and any other two

QI.	a) 1	Define Database .	[2 marks]				
	i	i) State any four examples of Database Managemen	t Systems.				
			[2 marks]				
	b) A database of employees details has the following fields; Employee						
	number,	First Name, Last Name, Section, Sex, Date of employm	ent,				
	Address	•					
	i.	Define 'DBMS'.	[2 marks]				
	ii.	For each field, state the most suitable data type.	[4 marks]				
	iii.	It is proposed that a unique field be included in the ta	ble. Suggest a name				
		for the field and explain its significance.	[4 marks]				
	c) S	ecords to the					
	t	raditional filing system.	[5 marks]				
	d) I	Explain the following terms:					
	i.	Relational Databases.	[3 marks]				
	ii.	Record	[2 Marks]				
	iii.	Field	[2 Marks]				
	iv.	Primary Key	[2 Marks]				
	V.	Entity	[2 marks]				
Q2.	a)State a	[4 marks]					
	b) Expla						
	i.	"Record" and "Database"					
	ii.	"Field" and "Field value".					
	iii.	Report and Label					
	iv.	Table and query	[8marks]				
	c) State	[4 marks]					
	d) Briefl	y outline the procedure of creating a report in access usi	ng design view				
			[4 Marks]				
Q3.	A lecturer i	s about to create a database of students details. She need	s to store				
	Informa	tion about the following fields: First Name, Last Name,	Age, Sex, Data of				
	enrolme	nt, Address.					
	a) For 6	each field propose:-					
	i.	The most suitable data types.					
	ii.	The most appropriate field size.	[3 marks]				

b) Explain why the field 'Date of Birth' would be more suitable than 'Age'.

[1 marks]

- c) What do QBE and SQL stand for (4mks)
- d) What is the function of the following database tools?
  - a) Table
  - b) Form
  - c) Report[6 marks]
  - d) Explain the following table properties;
    - i. Input mask.
    - ii. Caption.
  - iii. Field size.

[6 marks]

Q4. a) Differentiate between the design view and the data sheet view. [4 marks]

b) Data logic Ltd has set up the database as shown in Table 1. It wishes to analyse its sales using Database management system (Ms-Access).

### **Table**

Product	Units	Cost per unit	Total cost	VAT	Commission
Keyboards	30	200			
Hard disks	15	900			
Floppy drives	10	500			
Ram-memory	21	950			
Casings	34	2,000			
Processors	18	12,000			

- I) If it was calculating the student marks the query expression would be Total Marks = [cats]+ [exam marks]. Using the information given determine the following:
  - i. A query expression that generates the total cost.
  - ii. A query expression that generates VAT at 16% of the total cost.
  - iii. A query that generates the commission calculated at 2% of the total cost.
  - iv. The manager of Data Logic (K) Ltd would like to have the list of products whose units are greater than 20. Describe the procedure used to generate this list.

    [8 marks]
  - II) Explain the following database management terms:
    - i. Data Definition Language.
    - ii. Data manipulation language.
    - iii. Query language.
    - iv. Report [8 marks]

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### P.O BOX 1699

### **BUNGOMA**

# DEPARTMENT OF INFORMATION TECHNOLOGY FINAL SEMESTER EXAMS CCR 004 COMPUTER APPLICATIONS

# SECTION A (30 MARKS)- Compulsory

# **Question 1**

- i) Define data the following terms as used in computer. [10mks]
- a) Data
- b) Program
- c) Computer
- d) Hardware
- e) An operating system
- ii) Differentiate between the following terminologies in computing environment[10mks]
- a) RAM and ROM
- b) Hardware and software
- c) System software and application software
- d) Softcopy and hardcopy
- e) Scanner and a printer
- iii) How are computers classified? Give example according to the classification(6mks)
- iv) Explain using illustrations the data processing cycle(4mks)

# **SECTION B(40 MARKS)**

# Question 2

- i) What is a computer system? Describe three basic components of a computer system (8mks)
- ii) State four functions of the operating system(2mks)

- iii) John, a journalist has been at the scene of a crime name and give examples of the 3 forms in which he will enter data collected into the computer(6mks)
- iv) Suppose you collected your data from the field, you have entered into the computer and been processed, give four examples of storage devices that you will use to store data for future references (4mks)

### **Ouestion 3**

- i) What do you understand by the term CPU?(2mks)
- ii) Explain the functions of the units in the CPU(6mks)
- a) Control unit
- b) Arithmetic and Logic Unit
- c) Memory
- iii) Briefly describe the uses computer to deal with crimes (10mks)
- iv) Explain two types of users as a component of the computer system(2mks)

### **Question 4**

- i) What is an application software? Give four examples of application software?(6mks)
- ii) Explain the difference between input devices and output devices. Give two examples of each(4mks)
- iii) Highlight two types of memories and explain the difference between them(4mks)
- iv) Explain how computer software are applied in the following areas(4mks)
- a) Database management for records of finger prints photography
- b) Crime scene processing using the computers
- v) Give two examples of scanners (2mks)