



ELIZADE UNIVERSITY

ILARA-MOKIN

FACULTY: BASIC AND APPLIED SCIENCES
DEPARTMENT: MATHEMATICS AND COMPUTER SCIENCE
2nd SEMESTER EXAMINATION
2015 / 2016 ACADEMIC SESSION

COURSE CODE: CSC 102

COURSE TITLE: Introduction to Computing

COURSE TEAM: Dr. K. Agbele; Mr. K. Aregbesola; Mr. K. Aruleba, Mr. E. Ayetiran

DURATION: 2 ½ Hours

HOD's SIGNATURE

A rectangular box containing a handwritten signature in black ink.

INSTRUCTION:

The paper comprises of **TWO SECTIONS**. You should answer **ALL QUESTIONS** from both **SECTIONS A & B**. For SECTION A, 15 marks are available while 45 marks are available for SECTION B. There are 60 marks in total for the examination paper. The exam paper is worth 60% of the overall mark for **INTRODUCTION TO COMPUTING**.

Students are warned that possession of any unauthorized materials in an examination is a serious offence

21. Microsoft Excel is a ___ application software
(a) Spreadsheet (b) database (c) word-processing (d) graphic
22. Rows in Ms Excel are labelled using ___ (a) Letters (b) images (c) numbers (d) pointers
23. Columns in Ms Excel are labelled using ___ (a) Letters (b) images (c) numbers (d) pointers
24. The intersection of a columns and rows form a ___ (a) Column-row (b) row-column
(c) cell (d) sheet
25. The data-entry bar also known as the ___ bar is the area where the text, numbers, or formula in the active cell is displayed (a) formula (b) active (c) cell (d) number
26. To select an entire column or row, you click on the column or row _____ (a) bottom
(b) middle (c) heading (d) bolding
27. Formula in spreadsheet usually begins with _____ (a) Plus sign (b) minus sign
(c) Equal sign (d) divide sign
28. _____ are built-in shortcuts for making calculations with a range of cells
(a) formula (b) instructions (c) functions (d) multiplications
29. The outcome of all the following are equivalent except
(a) SUM (A1:A5)/5 (b) AVERAGE (A1:A5) (c) MEDIAN (A1:A5) (d) (A1+A2+A3+A4+A5)/5
30. A group of related data points that are plotted in a graph is called a _____
(a) line series (b) data series (c) chaums series (d) graph series

SECTION B (All questions are Compulsory)

DATABASE - PART 1

- 1 (a) Define a database.
(b) Explain 5 advantages of a database system over the traditional file system
(c) Diagrammatically, explain the architecture of a database system.
(d) What is a database model? Hence, list three database models you know.
- 2 (a) Study carefully the Relation Course in Table 1 below; hence perform the following operations on the relation:
 - i. Insert (MTH 102, General Mathematics, 3)
 - ii. Delete (GST 101, Use of English, 1)
 - iii. Update (CSC 307 units to 3)
 - iv. Select (all 3 unit courses)

Table 1: Course

Course Code	Course Title	Unit
CSC 102	Computing	3
GST 101	Use of English	1
PHY 404	Advance Physics	3
CHM 202	Organic Chemistry	2
CSC 307	Database System	1

- (b) Calculate the following from the given Table 1. (i) Tuple (ii) Cardinality
- (c) With the aid of a diagram explain database management system (DBMS).

NOTE: Clearly show your structured query language (SQL) commands and the new relation(s) of each of the operation to be performed.

NETWORKING - PART II

3. (a) In not more than two (2) sentences, one for each, explain the following communication modes: (i) Simplex^{xm} (ii) Half-duplex (iii) Duplex
 (a) Give an example of each in 3 (a) above *Wide* *Phone*
4. Outline in hierarchical order, the seven (7) layers of the ISO/OSI reference model *PHYSICAL* *DATA LINK* *NETWORK* *TRANSPORT* *SESSION* *PRESENTATION* *APPLICATION*

WORD PROCESSING/ SPREADSHEET - PART III

5. (a) What is a spreadsheet? Describe spreadsheets and give an example.
 (b) Given the spreadsheet in Table 1

Table 2: A sample spreadsheet

	A	B	C	D	E
1	Status Report				
2	Assignments	Your Grade	Possible Points	Percentage	
3	Homework	80	100	80.00%	
4	Test	95	100	95.00%	
5	Quiz	100	100	100.00%	
6	Notebook	75	100	75.00%	
7	Total	350	400	87.50%	
8					
9					

- i. Write out the formula for obtaining the result in cell D7
 ii. Write out the formula for obtaining the result in cell C7
 iii. Write out the formula for obtaining the result in cell B7
 iv. Write out the formula for obtaining the average Grade in column B
6. (a) What is a word-processor? Mention any one.
 (b) Explain what you understand by the following terms:
 (i) Sections (ii) Watermarks (iii) Document Viewer (iv) Mail Merge

NOTE: Clearly show your structured query language (SQL) commands and the new relation(s) of each of the operation to be performed.

NETWORKING - PART II

3. (a) In not more than two (2) sentences, one for each, explain the following communication modes: (i) Simplex^{AM} (ii) Half-duplex (iii) Duplex

(a) Give an example of each in 3 (a) above

4. Outline in hierarchical order, the seven (7) layers of the ISO/OSI reference model

Handwritten notes:
 Phone
 Mic
 PANTS
 Network
 7

WORD PROCESSING/ SPREADSHEET - PART III

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6. (a) What is a word-processor? Mention any one.

(b) Explain what you understand by the following terms:

- (i) Sections
- (ii) Watermarks
- (iii) Document Viewer
- (iv) Mail Merge