NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

Faculty of Industrial Technology

Department of Industrial and Manufacturing Engineering

COMPUTER APPLICATIONS - TIE 2109

1ST SEMESTER EXAMINATION FEBRUARY 2010

| Instructions to Candi |
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- 1. **Time Allowed**: 3 hours
- 2. Examination length is **3hrs**.

WHERE OrderID=7400;

- 3. Each question carries twenty (20) marks and there are six (6) questions in total.
- 4. Attempt the whole of Section A and three questions from Section B.

SECTION A

QUESTION 1

| a) | Describe how you would create an electronic slide showing presentation that | | | |
|------------|---|----------|--|--|
| | includes music. | [5] | | |
| b) | Write a brief but concise discussion on GUIs. | [5] | | |
| c) | The Web is so vast that it is useless unless one can easily locate | relevant | | |
| | resources. Explain the current solution to this problem. | [10] | | |
| QUESTION 2 | | | | |
| a) | What is a relational database? | [3] | | |
| b) | How would you run a query on an MS Access database? | [5] | | |
| c) | Suppose you have access to the database of a clothing shop. What output would | | | |
| | you expect from these queries? | | | |
| i) | SELECT Name, PhoneNumber | | | |
| | FROM Accounts | | | |
| | WHERE City = "Bulawayo"; | [3] | | |
| ii) | SELECT ProductName, | | | |
| | UnitPrice*UnitsInStock AS TotalValue | | | |
| | FROM Products; | [3] | | |
| iii) | SELECT Products.ProductName, | | | |
| | Categories.CategoryName | | | |
| | FROM Categories, Products | | | |
| | WHERE | | | |
| | Categories.CategoryID = Products.CategoryID; | [3] | | |
| iv) | SELECT OrderID, Sum ([UnitPrice]*[Quantity]*(1-[Discount])) | | | |
| | AS Subtotal | | | |
| | FROM [Order Details] | | | |
| | | | | |

[3]

SECTION B

QUESTION 3

| a) | A Process Engineer at Delta Beverages is preparing a report using M | S Word. |
|------------|--|----------|
| , | Whenever he types the word Chibuku, the word processor underlines it in | |
| | that annoys him. How can he solve this problem? | [2] |
| b) | How do you add page numbers to an MS Word document? | [2] |
| c) | How would you check and correct spelling and grammatical errors in a | 60 page |
| | MS Word document? | [4] |
| d) | Describe how you would protect an MS Word document from unau | thorised |
| | access. | [6] |
| e) | Briefly explain the steps needed to create the following equation in MS W | ord |
| | $[D_b]$ | |
| | $F = \pi D_{y} \times t \times TS \times \left[\frac{D_{b}}{D_{y}} - 0.7 \right]$ | |
| | . , , | [6] |
| OUI | ESTION 4 | [-] |
| | | |
| a) | What steps would you take to attach a picture on a memory stick to an em | ail you |
| | intend to send to your friends? | [6] |
| b) | Define the following: | |
| | i) computer virus; | [2] |
| | ii) worm; | [2] |
| | iii) malware; | [2] |
| | iv) firewall. | [2] |
| c) | Discuss how you would protect your computer from malware. | [6] |
| <u>QUI</u> | ESTION 5 | |
| a) | Write short notes on e-commerce. | [10] |
| b) | Write a brief but concise discussion on the World Wide Web with specific | |
| U) | reference to the relevant terminology. | [10] |
| | reference to the relevant terminology. | [IO] |
| QUI | ESTION 6 | |
| a) | Explain the difference between a workbook and a worksheet. | [2] |
| b) | Why is spreadsheet software so useful to engineers? | [6] |
| c) | How would you find the sum, mean, mode and median of the heights | |
| - / | people using MS Excel? | [8] |
| d) | Define the following spreadsheet terms: | r - J |
| , | worksheet tabs: worksheet area; cell; cell reference indicator. | [4] |

END OF EXAMINATION