CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

CHUKA AND THARAKA CAMPUSES

EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF ARTS AND MASTER OF EDUCATION

COSC 801: COMPUTER USE AND APPLICATION IN RESEARCH
COSC 802: COMPUTER USE AND APPLICATION IN EDUCATION

STREAMS: MA AND M.ED (PART TIME)   **TIME: 3 HOURS**

DAY/DATE: TUESDAY 04/12/2018   **8.30 A.M – 10.30 A.M**

INSTRUCTIONS
Attempt **Question 1 and any other **TWO** from **SECTION B**
**Marks are awarded for clear and concise answers
*ONLY the first **THREE** Questions attempted will be marked (**Question one inclusive**)

SECTION A-Compulsory
Question ONE -30 Marks
 (a)Explain the key function(s) of the following computer application software.
   (i)Ms-word   **[3 Marks]**
(ii)Ms-Excel   **[3 Marks]**
(iii)Ms-Powerpoint   **[3 Marks]**

 (b)While explaining what SPSS is, describe why it is important to researchers **[5 marks]**
 (c) Briefly explain the role played by the following system software:
   (i) Operating system   **[2 Marks]**
   (ii) software drivers   **[2 Marks]**
   (iii) Antivirus   **[2 Marks]**
 (d)While giving examples describe what types of data is acceptable in a spreadsheet

Cell   **[6 Marks]**

(e)Give **FOUR** types of secondary memory storage commonly used to store data in using computers   **[2 marks]**

(f)How can a researcher utilize the bookmark feature available in many web browsers to improve his/her research productivity   **[2 marks]**

SECTION B-Attempt only Two questions from this section
Question TWO [15 Marks]

(a)Explain the role of the following word processing features to a researcher when writing a research proposal.

(i)Section breaks	**[3 Marks]**
(ii)Insert citation	**[3 Marks]**
(iii)Table of contents	**[3 Marks]**

(b)Explain the role of the following spreadsheet features to a researcher when analyzing data:

(i)Functions	**[3 Marks]**
(ii)Graph	**[3 Marks]**

Question THREE [15 Marks]
Use the spreadsheet datashown below to answer questions that follow:

	A	B	C	D	E	F	G	H
1	Month	Nairobi	Kisumu	Mombasa	Total sales	Average Sal	Tax charged on Total sales (V.A.T)	Net sales
2								
3	January	120000	87000	97000				
4	February	80000	70000	60000				
5	March	78000	56000	45000				
6	April	90000	28000	56000				
7	May	50000	45000	78000				
8	June	79000	28000	65000				
9	July	78000	23000	67000				
10	August	67000	45000	56000				
11	September	67500	43000	56700				
12	October	89000	31000	45000				
13	November	45000	42000	54000				
14	December	67000	28000	45000				
15	Yearly sales							

(i)What formulae would you enter in cell B15,E3,F3,G3,H3 and copy it to compute yearly sales, Total sales, average sales, V.A.T and Net sales respectively **[10 Marks]**

(ii)Explain how you would draw a pie-chart showing Total sales for each Month
[3 Marks]

(iii)Which **TWO**ms-excel functions are applicable for use in the spreadsheet above
[2 Marks]

Question FOUR [15 Marks]
(a)Differentiate between variable view and data view in **SPSS**   **[4 Marks]**
(b)Give **THREE** measurement scales supported by **SPSS**   **[3 Marks]**
(c)Describe **FOUR** parameters you can consider when evaluating research content from internet
sources   **[8 Marks]**

Question FIVE [15 Marks]
(a) A search engine is a software that indexes and catalogs the Internet into a database. Discuss
FOUR types of Search Engines that can be used to search for relevant research content citing
ONE example in each and **ONE** situation where each is most applicable   **[12 Marks]**

(b)Give **THREE** features of PowerPoint application that make it suitable for presenting research
findings   **[3 Marks]**