COSC 801: COMPUTER USE AND APPLICATION IN RESEARCH

INSTRUCTIONS

1. Answer question **ONE** and any other **TWO** questions from Section B

2. Marks are awarded for clear and concise answers

SECTION A-COMPULSORY

Question ONE – [30 Marks]

(a)Describe **THREE** advantages and **TWO** disadvantages of using google forms for data collection over questionnaires **administered manually [5 marks]**

(b)Give **FIVE** features of Microsoft excel applications that are of interest to a researcher **[5 marks]**

(c)While explaining what a word processor is, describe why word processing applications are important to researchers **[4 marks]**

(d) Give **THREE** advantages and **THREE** disadvantages of using google docs over Microsoft word **[6 Marks]**

(e)How can the following software tools be used to support a student doing research in social sciences.
     (i) Google photos   **[3 marks]**
     (ii)Google calendar   **[3 Marks]**

(e)Describe **FOUR** features of SPSS that are relevant to researchers in social sciences **[4 Marks]**

SECTION B-Answer any TWO questions from this section

Question TWO [15 Marks]

Below is a screenshot of a SPSS data editor. Use it to answer the questions that follow:

(a) What information would you put in **variable view** to describe the following:

    (i) Type and width of Name **[2 Marks]**

    (ii) Type and width of Gender **[2 Marks]**

    (iii) Type, width and decimal of height **[3 Marks]**

(b) What is the most appropriate scale for **Name** and **height** respectively **[4 Marks]**

(c) What is the difference in the role of data view screen/window and output viewer screen/window in SPSS **[4 Marks]**

Question THREE [15 Marks]

Use the following spreadsheet to answer the questions that follow.

	A	B	C	D	E	F	G
	ITEM NO.	NO. OF ITEMS	ITEM PRICE	TAX	TOTAL PRICE BEFORE TAX	TOTAL PRICE AFTER TAX	RATE
1							
2	100	115	30				
3	101	256	12				
4		49	56				
5		23	150				
6		840	5				
7		200	56				
8		294	300				
9		4	90				
10							
11	Count of items	?					
12	Average of tax	?					
13	Min ITEM PRICE	?					
14	Max ITEM PRICE	?					

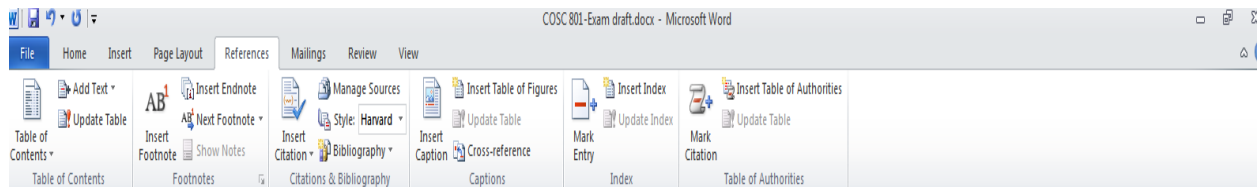(a) How many columns are displayed in this spreadsheet **[2 Marks]**

(b) Give the name of the cell containing Item Prize of Item No. 100 **[2 Marks]**

(c)Give the formulae in form of function you would enter in cell **C11, C12, C13 and C14** to compute: **Count of   items, Average of tax, Min ITEM PRICE and Max ITEM PRICE** respectively**[8 Marks]**

(d)With examples, give **THREE** types of data in the spreadsheet **[3 Marks]**

Question FOUR [15 Marks]

The Screen below shows an extract of a ms-word user interface.

(a)Explain how a masters student writing his/her thesis report can use the following ms-word features **[10 Marks]**

   i)   Manage Sources
   ii) Insert Table of figures
   iii) Update table
   iv) Insert Citation
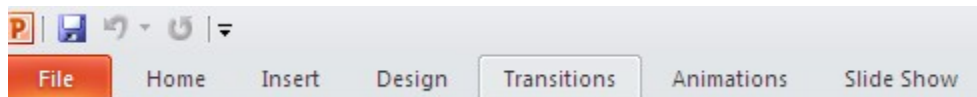   v)   Bibliography

 (b)Describe **FIVE** security features employed Microsoft word to protect documents **[5 marks]**

Question FIVE   [15 Marks]

(a)While working on his masters thesis, Peterson downloaded a picture from an artist's online album and put it on his report. However, he did not include a written acknowledgement in the references. Briefly explain any ethical issue in this scenario [**2 Marks**]

(b)Describe **THREE** important considerations that one needs to make while creating a masters thesis presentation using ms-powerpoint **[3 Marks]**

(c)The screen shows a ms-powerpoint interface. What is the role of the following features on PowerPoint slides.

   (i)Insert   [**2 Marks**]
   (ii)Design   [**2 Marks**]
   (iii)Transition   [**2 Marks**]
   (iv)Animation   [**2 Marks**]
   (v)Slideshow   [**2 Marks**]