

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF MASTERS DEGREE

COSC 801: COMPUTER USE AND APPLICATION IN RESEARCH

STREAMS: (MA.Med,Msc) Level1 Block 1

TIME: 2 HOURS

DAY/DATE: MONDAY 14 /12/2020

11.30 A.M -1.30 P.M.

INSTRUCTIONS:

1. Answer question **ONE** and any other **TWO** questions
2. Marks are awarded for clear and concise answers

SECTION A- COMPULSORY

Question ONE (30 Marks)

- (a) Using appropriate examples, distinguish between the following:
- | | |
|---|-----------|
| (i) Application software and System software | [2 Marks] |
| (ii) Operating system and Antivirus software | [2 Marks] |
| (iii) Statistical package for social scientists (S.P.S.S) and Microsoft excel | [2 Marks] |
| (iv) Label and Number as applied in spreadsheets | [2 Marks] |
| (v) Formula and Function | [2 Marks] |
- (b) Give **FOUR** features of Microsoft word that make them attractive to researchers or Authors [4 Marks]
- (c) Name **THREE** measurement scales provided by SPSS [3 Marks]
- (d) Explain three methods of dealing with computer viruses. [3 marks]
- (e) Discuss the impact of ICT on Education sector (4 marks)
- (f) Computers are widely used in all sectors of our economy. Explain **four** reasons why computers have gained such popularity in the market place today. (4 Marks)

(g)How can a researcher benefit from the bookmark feature found in most web Browsers [2 Marks]

SECTION B- Attempt only TWO questions from this section

Question TWO (15 Marks)

- a) Discuss any two types of page layouts used in Microsoft Word (4 Marks)
- b) Explain the following tools displayed by a word processor. (8 Marks)
 - i. Menu bar
 - ii. Tool bars
 - iii. Rulers
 - iv. Scroll bars
- c) What is the actual use of mail merge feature available in word processors? (Marks 3)

Question THREE: (15 Marks)

- a)A government department would like to acquire an application program in order to convert their manual record processing to electronic form.
 - i. Outline **two** options of acquiring the application program. [2 marks
 - ii. Explain **three** circumstances that would influence the choice in (i) above[3 marks]
- b) Explain the main hardware functional units of a general purpose computer system giving their key functions [10 Marks]

Question FOUR: (15 Marks)

- a) Write both Microsoft Excel *formula* and *function* that are going to perform the following tasks:
 - i. Get the average of cells C3, C4, C5 and C6. (3 Marks)
 - ii. Get the sum of cells C3, B3, D3, E3 and G3. (3 Marks)
- b) Discuss **FOUR** security precautions to take when using a computer connected to the internet (4 marks)
- c) Give an explanation of the advantages of e-mail services for business purposes. (4 marks)
- d) After Charles read an email he clicked on the forward command. State the function of this command. (1 mark)

Question FIVE: (15 Marks)

- a) SPSS is a very powerful tool for statistical data analysis. What is the role of the following views/windows in SPSS
- (i) Variable view **(3 Marks)**
 - (ii) Data view **(2 Marks)**
- b) Briefly, discuss what is Internet? Explain two roles of the internet in enhancing business performance in government sector. **(4 Marks)**
- c) While giving an example, briefly explain the role of a search engine in Research **(2 marks]**
- d) Catherine was working on a presentation created using a presentation program and wished to insert a slide between slides 3 and 4. Outline the steps she would follow to achieve her objective **(4 Marks)**
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