CHUKA



UNIVERSITY

SUPPLEMENTARY/ SPECIAL EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE, BACHELOR OF SCIENCE APPLIED COMPUTER SCIENCE

COSC 380/ACSC 381: RESEARCH METHODS IN COMPUTER SCIENCE

STREAMS: BSC (COMP SCIE), BSC (ACSC)

TIME: 2 HOURS

11.30 AM – 1.30 PM

DAY/DATE: WEDNESDAY03/02/2021 INSTRUCTIONS:

Answer Question ONE and ANY other TWO Questions

Question One (30 Marks)

a)	 Explain the following terms as used in research. (i) Population: (ii) Sample (iii) Sampling (iv) Variable 	(4 marks)			
b)	What is the purpose of research?	(4 marks)			
c)	State any five source of knowledge in research.	(4 marks)			
d)	Outline the major steps in research.	(6 marks)			
e)	State any six source of research problems.	(6 marks)			
f)	Discuss the importance of research questions in a research proposal	(6marks)			
Question Two					
a)	State and explain any two approaches used in research methods	(4 marks)			
b)	Discuss the various components/sections of a research report	(8 marks)			

c) State and explain any four tools which can be used in data collection when carrying out a research, citing their advantages and disadvantages. (8marks)

Question Three

a)	State and discuss any four methods of sampling designs	(8 marks)
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b) Evaluate any three types of research citing their advantages and their disadvantages.

(12 marks)

Question Four

The following is a research for a second year student in Chuka University. "Factors influencing the rise of inflation in the Kenyan economy. A case of Chuka Municipality, Tharaka-Nithi County: Kenya"

a)	State the broad objective and any two specific objectives from the research topic.	(5 marks)
b)	State any two research questions from the research topic.	(5 marks)
c)	State any two hypotheses from the research topic	(5 marks)
d)	Develop the problem statement from the above research topic	(5 marks)
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Question Five

a) In writing a research proposal, literature review is a very important chapter. Explain the purpose of literature review in any research project. (5 marks)

b) Briefly discuss any four ways of data presentation in a research project (8 marks)

c) Highlight and explain the basic components of the research methodology chapter in any research project. (10 marks)
