

QUESTION FIVE (20 MARKS)

a)

b)

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KIRIRI WOMENS' UNIVERSITY OF SCIENCE AND TECHNOLOGY UNIVERSITY EXAMINATION, 2022/2023 ACADEMIC YEAR FOR THE CERTIFICATE IN INFORMATION TECHNOLOGY CIT 1005 - SYSTEMS ANALYSIS AND DESIGN

Date: 2ND AUGUST 2022 Time: 2:30PM – 4:30PM

(10 Marks)

(10 Marks)

INSTRUCTIONS TO CANDIDATES ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS QUESTION ONE (30 MARKS)

QUE	ESTION ONE (30 MARKS)	
a)	Distinguish between the following as used in system analysis and design;	
	i) Probabilistic and deterministic systems	(2 Marks)
	ii) Formal and informal system	(2 Marks)
	iii) Physical and abstract system	(2 Marks)
	iv) Open and closed systems.	(2 Marks)
	v) Structured and rapid application development	
b)	Explain Two reasons for initiating an information systems project.	(4 Marks)
c)	Describe the concept of a system and explain Four of its characteristics.	(8 Marks)
d)	Define feasibility study and Explain THREE types of feasibility study that should be carried out before	
	system development.	(8 Marks)
e)	Describe Two activities performed during Systems Analysis.	(2 Marks)
QUE	ESTION TWO (20 MARKS)	
a)	Explain the Systems life cycle, highlighting major activities in every stage.	(10 Marks)
b)	Analyze the importance of system maintenance to an organization.	(4 Marks)
c)	Describe Three major components of a system.	(6 Marks)
QUE	ESTION THREE (20 MARKS)	
a)	A variety of tests are usually performed on software systems. Explain FOUR such tests. (8 Marks)	
b)	Describe Three tools used by the analyst during system analysis.	(6 Marks)
c)	State FOUR attributes of a good system analyst.	(4 Marks)
QUE	ESTION FOUR (20 MARKS)	
a)	Distinguish between "Systems Approach" and "Systems Analysis".	(4 Marks)
b)	Explain any Five roles of a system analyst in system development.	(10 Marks)
c)	Describe Three approaches to maintaining software systems.	(6 Marks)

Explain any **five** advantages of waterfall model in system development.

Define the term data and explain **FOUR** tools used in data collection.