CHUKA



UNIVERSITY

(3 marks)

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN COMPUTER SCIENCE

COSC 00190: INTRODUCTION TO COMPUTER SYSTEMS PROJECT

STREAMS: CERT. COMP. SCI TIME: 2 HOURS

DAY/DATE: THURSDAY 11/4/2019 2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- Answer question **ONE** and **TWO** other questions
- Do not write anything on the question paper
- This is a **closed book exam**, No reference materials are allowed in the examination room
- There will be **NO** use of mobile phones or any other unauthorized materials
- Write your answers legibly and use your time wisely.
- Marks are awarded for clear and concise answers.

SECTION A (Answer ALL questions in this section)

QUESTION ONE (30 Marks)

g. Name an three types of reports

a.	Briefly	discuss	the role of each of the	following pats o	of a project proposal
	:	Title no	~~		

	l.	Title page	(2 marks)			
	ii.	Abstract	(2 marks)			
	iii.	Problem statement	(2 marks)			
	iv.	Project timeline	(2 marks)			
b.	Name	any three project management tools used by project managers	(3 marks)			
c.	List a	List any two types of project plans				
d.	State 1	tate three factors that determine the assignment of staff to tasks during software				
	develo	opment.	(3 marks)			
e.		any three attributes of a system project	(3 marks			
		5 1 5				
Ť.	Differ	rentiate between a vertical and horizontal prototype	(4 marks)			

h.	Differentiate between software verification and software validation	(4 marks)
SECT	TION B (ANSWER ANY TWO QUESTIONS)	
QUES	STION TWO (20 MARKS)	
a.	Discuss software testing under the following levels	
i.	System Testing marks)	(3
ii.	Regression Testing (3 marks)	
iii.	Usability Testing marks)	(3
iv.	Portability Testing (3 marks)	
Discu mode	uss the advantages of using the software prototyping develo	pment
	(8 marks)	
QUES	STION THREE (20MARKS)	
	tate and explain four components of a user manual document biscuss the role played by the members of the software development	(10 marks) (10 marks)
QUES	STION FOUR (20MARKS)	
	Vith the aid of a diagram discuss the waterfall development mode tate and explain four software risks associated with the software development	(12 marks) ent process
		3)
	narks)	
_	STION FIVE	
b. dis	st and briefly describe FIVE types of reports. scuss the purpose of a viva voce assessment fferentiate between alpha and beta testing	(10 marks) (6 marks) (4 marks)

b.

COSC 00190

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