UNIVERSITY

(3 marks)

CHUKA



UNIVERSITY EXAMINATIONS

CHUKA & EMBU

FIRST YEAR EXAMINATION FOR THE AWARD OF CERTIFICATE IN COMPUTER SCIENCE

COSC 00190: INTRODUCTION TO COMPUTER SYSTEMS PROJECT

STREAMS: DIP. COMP. SCI Y2S2 TIME: 2 HOURS

DAY/DATE: THURSDAY 25/03/2021 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

a. List three Advantages of Using a Formal Project Management approach

- 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)

b.	List any three characteristics of a software project			
c.	Differentiate between project deliverables and milestones			
d.	Briefly discuss the role of each of the following parts of a project proposal			
	I.	Title page	(2 marks)	
	II.	Abstract	(2 marks)	
	III.	Problem statement	(2 marks)	
	IV.	Project timeline	(2 marks)	

COSC 00190

•	e. Name the three stages where testing taking place in the software development life				
			(3		
	mai	ks)			
f	. Wh	at is the role of SRC in the SDLC	(2 marks)		
٤	g. Exp	plain how the following risks affect a project	(4 marks)		
	i.	Staff turnover			
	ii.	Management change			
ŀ	ı. You	a have been hired as part of a software development team and you are expe	ected to help		
	in c	in choosing the appropriate development methodology for a time critical project. Explain			
	two	appropriate methodologies for this project for your team to choose from	(3 marks)		
SEC	CTION	B (ANSWER ANY TWO QUESTIONS)			
		N TWO (20MARKS)			
č	a. With the aid of a diagram discuss the triple constraint concept as applied in project				
1		lain how the following risks offeets a project	(10 marks)		
(_	plain how the following risks affects a project	(2 1)		
	i. 	Management change	(3 marks)		
	ii.	Hardware unavailability	(3 marks)		
	iii.	Staff turnover	(2 marks)		
	iv.	Product competition	(2 marks)		
QUI	ESTIO	N THREE (20MARKS)			
a. Discuss software testing under the following levels					
	i.	System Testing	(3 marks)		
	ii.	Regression Testing	(3 marks)		
	iii.	Usability Testing	(3 marks)		
	iv.	Portability Testing	(3 marks)		
b.	Discu	iss the advantages of using the software prototyping development model	(8 marks)		

COSC 00190

QUESTION FOUR (20MARKS)

- a. Discuss how the following software tools and techniques help project managers in
 performing their duties (12 marks)
 - i. Project Charter
 - ii. Gantt charts
 - iii. WBS document
- b. State and explain FOUR components of a systems project report (8 marks)

QUESTION FIVE (20MARKS)

- a. Briefly describe seven guidelines that must be followed while conducting a Viva Voce assessment.
- b. List and briefly describe THREE types of reports. (6 marks)
