

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF
CERTIFICATE IN COMPUTER SCIENCE**

COSC 00190: INTRODUCTION TO COMPUTER SYSTEMS PROJECT

STREAMS:

TIME: 2 HOURS

DAY/DATE : WEDNESDAY 22 /09/ 2021

2.30 PM – 4.30 PM

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)

- a. List three advantages of using the formal project management approach (3 marks)
- b. What is the role of each of the following parts of a user manual document?
 - i. Cover page (2 marks)
 - ii. Table of contents (2 marks)
- a. Differentiate between the following
 - i. project goals and objectives (4 marks)

- c. horizontal prototype and vertical prototype (4 marks)
- d. List the four steps involved in the risk management process (4 marks)
- e. Name the three stages where testing taking place in the software development life cycle (3 marks)
- f. List any three types of project plans (3 marks)
- g. State three factors that determine the assignment of staff to tasks during software development. (3 marks)
- h. What is the role of SRC in the SDLC (2 marks)

SECTION B

QUESTION TWO (20MARKS)

- a. Discuss how the following software tools and techniques help project managers in performing their duties
 - i. Project Charter (4 marks)
 - ii. Earned value management (3 marks)
 - iii. Gantt charts (3 marks)
- b. Explain the characteristics of a well-written computer project report (10 Marks)

QUESTION THREE (20MARKS)

- a. Briefly discuss the roles 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)
- b. With the aid of a diagram discuss the software development cycle (12 marks)

QUESTION FOUR (20MARKS)

- a. State and explain the role of a project manager in the software development process (10 marks)
- b. With the aid of a diagram discuss the Triple Constraint of Project Management

(10 marks)

QUESTION FIVE (20MARKS)

- a. Briefly describe seven guidelines that must be followed while conducting a Viva Voce assessment. (14 marks)
- b. List and briefly describe THREE types of reports. (6 marks)

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