



The Co-operative University of Kenya

END OF SEMESTER EXAMINATION DECEMBER 2022
EXAMINATION FOR THE BACHELOR OF COMPUTER SCIENCE
(YR I SEM II)

UNIT CODE:

UNIT TITLE:SOFTWARE PROJECT MANAGEMENT.....

DATE: TH DECEMBER , 2022

TIME: 9:00 AM – 11:00 AM

INSTRUCTIONS:

- Answer question **ONE (compulsory)** and any other **TWO** questions

QUESTION ONE

- Explain the Work Break-Down structure, highlighting its key elements (6 mks)
- Write short notes on (6 mks)
 - Stakeholders management
 - Factors responsible for project failure
- Explain the process of software project planning? (4 mks)
- A software project is estimated to be finished in 6 months, using two programmers. However, due to a change in circumstances, it is desirable that the project be speeded up. A proposal is put forward to increase the number of programmers to six, thus allowing the project to be completed in 4months.

Required:

- Explain the risk, if the project committee does not come up with any new proposal to cope the change in circumstances and stick to one-year plan despite of changes in circumstances (4 mks)
- Draw the activity network and explain its steps. (FB, BB and critical Path) and estimate the shortest time to complete the project (10 mks)

	ACTIVITY	DURATION(WEEKS)	PRECEDENTS
A	HARDWARE SELECTON	8	-
B	SOFTWARE DESIGN	6	-
C	INSTANT HARDWARE	4	A
D	TEST SOFTWARE	5	B
E	FILE TAKE-ON	4	B
F	WRITE USER MANUALS	12	-
G	USER TRAINING	4	E,F
H	INSTALL AND TEST	2	C,D

QUESTION TWO

- (a) Explain the role of the software Project Manager in helping set expectations for clients (8 mks)
- (b) Explain 3 factors that determine the successfulness of a software project (6 mks)
- (c) Differentiate between Strategic assessment and Technical assessment as used in Software Project management (6 mks)

QUESTION THREE

- (a) Define and give the significance of cost-benefit analysis in ICT projects (6 mks)
- (b) Explain the various software effort estimation techniques. (6 mks)
- (c) Explain the project implementation and the approaches to implementation (8 mks)

QUESTION FOUR

- a) Explain the selection criteria for Software Configuration management tools (8 mks)
- b) Consider the projects cash flow estimates for four project at your own, Rank the four projects in order of financial desirability and make a note of your reasons for ranking them in that way? (6 mks)
- c) Explain the concept of monitoring and evaluation in software projects (6 mks)

QUESTION FIVE

- (a) Identify and explain best practices for resetting stakeholder expectations on software projects (4 mks)
- (b) Explain the advantages and disadvantages of off-the-shelf software (6 mks)
- (c) Differentiate the term Scope Creep and configuration management (4 mks)
- (d) Explain the units of measuring the size of the software (6 mks)