

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE
IN COMPUTER SCIENCE**

COSC 436: SOFTWARE PROJECT MANAGEMENT

STREAMS: Y4S2

TIME: 2 HOURS

DAY/DATE: FRIDAY 24/09/2021

2.30 P.M – 4.30 P.M

INSTRUCTIONS

Answer question one and any other two questions

QUESTION ONE (30 MARKS)

- (a) Explain five reasons why project management is important. (5 marks)
- (b) Briefly explain five activities carried out in project planning. (5 marks)
- (c) Explain five time robbers in a software project. (5 marks)
- (d) Explain what a project risk is and identify three risks that can be associated with an online banking software system project development. (5 marks)
- (e) Identify five checklist items you would make when evaluating the quality of a software product. (5 marks)
- (f) State five issues to consider when analyzing proposed changes in a software. (5 marks)

QUESTION TWO (20 MARKS)

- (a) Explain the two techniques of estimating the cost of developing a software project. (4 marks)
- (b) Discuss the four sub-models incorporated in the COCOMO II detailed cost estimation for software projects. (8 marks)
- (c) In your recent industrial attachment you were engaged in a group project task to develop a working software application system. You needed a project manager in your group who

would be responsible of project scheduling. Discuss the manager's role in project scheduling and the activities he/she should perform on behalf of the group. (8 marks)

QUESTION THREE (20 MARKS)

- (a) Suppose you are asked to advice a team of project managers on measuring the success of the project. Identify four success criteria that will guide your discussion. (4 marks)
- (b) Discuss the four risk management processes in a software project. (8 marks)
- (c) A good group is cohesive and has a team spirit. Discuss four advantages of a cohesive group in software development. (8 marks)

QUESTION FOUR (20 MARKS)

- (a) Explain two reasons why changes in a software project should be well managed. (4 marks)
- (b) Discuss four process activities to consider in the change management process for an evolving online banking system. (8 marks)
- (c) Discuss how you would go about minimizing recompilation of components in system building. (8 marks)

QUESTION FIVE (20 MARKS)

- (a) Discuss two ways of dealing with quality conflict in a software product considering that many stakeholders have differing views on software quality. (4 marks)
 - (b) Discuss four factors that influences the effectiveness and efficiency of group communications in a software project. (8 marks)
 - (c) "People management in a project requires a delicate balance between the work and the people in the project". Explain four reasons to justify this statement. (8 marks)
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