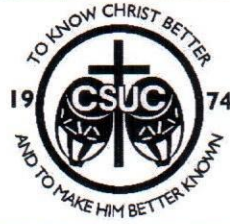


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CHRISTIAN SERVICE UNIVERSITY COLLEGE
KUMASI, GHANA
FACULTY OF HEALTH AND APPLIED SCIENCES
DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY
BACHELOR OF SCIENCE IN COMPUTER SCIENCE
END OF FIRST SEMESTER EXAMINATIONS – 2021/2022 ACADEMIC YEAR

LEVEL 300

BSIT 301 SOFTWARE ENGINEERING

JANUARY 2022

Time Allowed: 1 Hour

GENERAL INSTRUCTION TO CANDIDATES:

Questions in this Sections are to be answered in the answer booklet provided.

Time allocated is 60 Minutes.

Answer Question One(1) and any other two(2) from this Section.

SECTION B (45 Marks)

Answer Question One and Two (2) other questions from this section.

Question One

- a. With the aid of a diagram, describe one Software Development Life Cycle Model. [10 marks]
- b. Explain software engineering ethics and highlight two reasons why it is necessary for software engineers to follow it? [5 marks]

Question Two

- a. Outline three benefits of using a software lifecycle. [3 marks]
- b. What is the goal of the software requirements specification and analysis phase? [2 marks]
- c. What goes on during the software requirements specification and analysis phase? [6 marks]
- d. Who reviews the SRS document? [2 marks]
- e. What are anomalies and inconsistencies in requirements gathering? [2 marks]

Question Three

- a. Highlight four desired characteristics of a good user interface. [8 marks]
- b. Explain the following types of user interfaces:
- i. Command language-based interfaces [2 marks]
 - ii. Menu-based interfaces [2 marks]
 - iii. Direct manipulation interfaces [2 marks]
- c. What is black-box testing? [1 mark]

Question Four

- a. Describe three activities that goes on during the project planning stage. [6 marks]
- b. In what two ways can software documentation be tested? [2 marks]
- c. Explain two types of problems that may be identified during requirements analysis. [4 marks]
- d. What is a project size? [1 mark]
- e. Differentiate between Lines of code (LOC) and Function point (FP) metric for project size estimation. [2 marks]

Examiner: Emmanuel Kwesi Baah