


**BINDURA UNIVERSITY OF SCIENCE EDUCATION  
FACULTY OF SCIENCE AND ENGINEERING  
DEPARTMENT OF COMPUTER SCIENCE  
BSc HONS DEGREE IN SOFTWARE ENGINEERING  
SWE204: REQUIREMENTS ENGINEERING**

**2 HOURS 30 MINUTES**

**INSTRUCTIONS FOR CANDIDATES**

 **OCT 2024**

Answer **all** questions

Total marks: 100

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**Question 1**

- a. Explain the following terms
  - i. Natural language requirements
  - ii. Modeled requirements **[4]**
- b. Describe the **four** stages in the requirements engineering process cycle. **[16]**

**Question 2**

Examine any **five** problems that have led to research and discovery of various processes involved in requirements engineering. **[20]**

**Question 3**

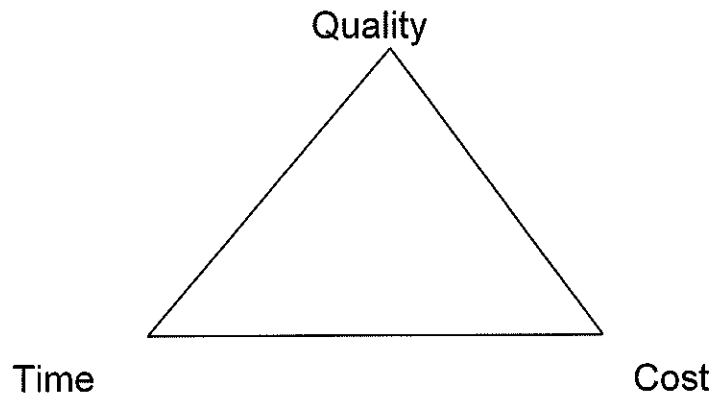
Bindura University of Science Education held a competition last Friday in which students had a chance to share their innovations to get funding. Among the six selected finalists is a student named Kimberly who is developing a dating app for students only. As a software engineering student you have been assigned the task to apply your quality modeling techniques on the following requirements that Kimberly got from the audience.

- a. "The app should respond fast." **[5]**

- b. "The app should be easy to use." [5]
- c. "The app UI should be beautiful." [5]
- d. "The app does not consume lots of data." [5]

#### Question 4

a.



In requirements engineering, often software engineers are required to make decisions on what to value the most between, time, quality and cost as they move from project to project. Give a detailed description of examples of projects in which the following are important as the major priority.

- i. Quality
  - ii. Time
  - iii. Cost [12]
- b. Describe the following tailoring characteristics in requirements engineering
- i. Project setting
  - ii. Team knowledge
  - iii. Type of system
  - iv. Business and legal concerns [8]

#### Question 5

- a. Explain the following terms
  - i. System Stakeholders
  - ii. System Vision
  - iii. System Goals
  - iv. System Quality [8]
- b. Refining requirements involves two steps, describe the two steps. [4]

- c. Give any **two** examples of detailed use case scenarios for Bindura University of Science Education moodle system. **[8]**

— End of Exam —