

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

2 HOURS 30 MINUTES

INSTRUCTIONS FOR CANDIDATES

Answer all questions

Total marks: 100

NOV 2024

Question 1

WhatsApp is the most popular and most used real-time chat messaging application in Zimbabwe. WhatsApp as an application of choice, give an example for the following.

- a. A user story
- b. A use case
- c. Two Business goals
- d. Two Usage goals
- e. Two System goals

[20]

Question 2

- a. Differentiate natural language requirements from modeled requirements. [4]
- b. Refining requirements involves two steps, describe the two steps. [4]
- c. Describe a scenario in which you would prioritize the following in software development.
 - i. Time [4]
 - ii. Cost [4]
 - iii. Quality [4]

Question 3

Explain the following Generic model processes.

- a. Roles and responsibility

- b. Tools
- c. Artifact
- d. Activities
- e. Milestones

[20]

Question 4

- a. Explain the following general software process cycle
 - i. Project setting [4]
 - ii. Team knowledge [4]
 - iii. Type of system [4]
 - iv. Business and legal concerns [4]
- b. Describe the following requirements validation techniques
 - i. Requirements decomposition [2]
 - ii. Requirements analysis [2]

Question 5

Most junior software developers don't value the use of requirements engineering processes when developing software and because of this they face problems that are currently being addressed by the requirements engineering process. Examine any five problems being addressed by requirements engineering process. [20]

--- End of exam ---