

**Department of Computer & Information Sciences**

**CS993 Software Engineering**

**Monday 22nd April 2024**

**9:30am - 10:30am**

**Duration: 1 hour**

**Attempt All Questions (Total 50 Marks)**

The exam paper comprises a section of multiple-choice questions and a section of long answer questions. Students must answer both sections.



## Section A: Multiple-Choice Questions

This section contains multiple-choice questions.

- Each multiple-choice question is worth one mark.
- Each answer must be indicated by placing an X in the multiple-choice answer sheet.
- Each multiple-choice question has one correct answer only.
- The question will be marked as incorrect if more than one answer is indicated.

**REDACTED**



## Section B: Long Answer Questions

This section includes long answer questions.

- Answers must be written in the answer booklet provided.
- Each question has an associated number of marks.
- Each question has a guidance word limit. Answers will be marked according to the content, rather than the number of words. There is no penalty for writing more words than the guidance limit.

**Q.1** A team of software developers are working together to update some software that is stored in a Git software repository. They are using an Agile Scrum software development lifecycle. They need to add software features that are associated with user stories.

**(a)** State what a Git software repository stores and why it is used for software development.

[80 words]

(4 marks)

**(b)** Describe how the developers should work together, using Git to successfully update the software.

[200 words]

(8 marks)

**Q.2** A team of software developers is working on a new software development project. At the start of the project, they produce a quality plan as an initial deliverable for the client company. State what is normally in a quality plan and how it should be used.

[100 words]

(5 marks)

**Q.3** Some software has been rapidly developed over a year. The development team perform an analysis of the code, looking for “code smells”. State what a “code smell” is and provide two examples.

[50 words]

(3 marks)

**END OF PAPER**

**(Dr. W. H. Bell)**