



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE

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| QUALIFICATION: BACHELOR OF COMPUTER SCIENCE HONOURS (SOFTWARE DEVELOPMENT) | |
| QUALIFICATION CODE: 08BCSH | LEVEL: 8 |
| COURSE: Advanced Software Development | COURSE CODE: ASD810S |
| DATE: June 2019 | PAPER: THEORY |
| DURATION: 2 Hours | MARKS: 80 |

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| FIRST OPPORTUNITY EXAMINATION QUESTION PAPER | |
| EXAMINER: | Mr Colin Stanley |
| MODERATOR: | Dr Gokop Longinus Goteng |

THIS QUESTION PAPER CONSISTS OF 2 PAGES

(Excluding this front page)

INSTRUCTIONS

1. Answer ALL the questions on the answer scripts.
2. Write clearly and neatly.
3. Number the answers clearly.

PERMISSIBLE MATERIALS

1. None.

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- (1) Discuss how you used any project management tool and the version control system to modify the open source project that you have selected. [10 Marks]
- (2) Imagine that one of your teammates have accidentally deleted a branch, and has already pushed the changes to the central git repository. There are no other git repositories, and none of your other teammates had a local copy. How would you recover this branch? [5 Marks]
- (3) Briefly discuss what you have implemented in your open source project and how you or could have better resolved the issues that you encountered. [15 Marks]
- (4) Discuss how the Model-View-Controller framework could have been or was implemented in your open source project. [15 Marks]
- (5) Do you agree that effective communication is equally essential as coding in software development? Discuss how to effectively communicate considering all possible implications of the modes of communication. [10 Marks]
- (6) How did you handle poor communication in your collaborative software development project? [10 Marks]
- (7) Discuss at least three emerging software development processes such as agile, open source, crowdsourcing, and lean, and any other. [15 Marks]

—END OF QUESTION PAPER—