



**NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

FACULTY OF COMPUTING AND INFORMATICS

DEPARTMENT OF COMPUTER SCIENCE

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

SECOND OPPORTUNITY \ SUPPLEMENTARY 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) Imagine you are have been hired by a particular IT consulting company named '*NamITClassics*' that has distributed developers in all regions in Namibia. Discuss the possible challenges that could arise leading such a large software development team and how to handle them best.
[20 Marks]
- (2) The Managing Director of '*NamITClassics*' informed you to include its staff from their ICT Department to be part of the testing team. How would you go about the formulation of the testing team and the testing process?
[10 Marks]
- (3) What is a conflict in the *Git* distributed version control system and how can it be resolved?
[5 Marks]
- (4) Briefly discuss what you have implemented for adding new functionality in your open source project and how you or could have better resolved the issues that you encountered.
[15 Marks]
- (5) Discuss the use and benefits of the Software Development Framework that was used or could have been used in your project.
[15 Marks]
- (6) *Build Quality In* and *Optimise the Whole*, are two of the seven principles of Lean Software Development outlined by Mary and Tom Poppendieck that can be applied to optimise the whole IT value system. Discuss these two principles in detail considering two dangers that Lean development teams often fall into sub-optimisation.
[15 Marks]

—END OF QUESTION PAPER—