

Tutorial Letter 202/1/2020

Advanced Systems Development (Information Systems) INF3705

Semester 1

ASSIGNMENT 02

School of Computing

IMPORTANT INFORMATION:

Please activate your *myUnisa* and *myLife* email addresses and ensure you have regular access to the *myUnisa* module site as well as your group site.

Semester 1: Assignment 02**[For first semester students only]****Total: 100**

Question 1 [20 marks]

1.1 The Requirements management planning is concerned with establishing how a set a set of evolving requirements will be managed.

List and explain (4) four number of issues, which one has to decide on during planning stage? (8)

1.2 Requirements management needs automated support, and the software tool for this should be choose during the planning phase.

Explain 3(three) reasons why you will need tool support? (6)

1.3 List and explain 3 (Three) principal stages to facilitate change management process? (6)

Question 2 [10 marks]

List and explain 5 types of UML diagram.

Question 3 [10 marks]

Briefly describe the three (3) types of software maintenance and explain why it is sometimes difficult to distinguish between them?

Question 4 [20 marks]

4.1. Based on your experience with bank ATM, draw an activity diagram that models the data processing involved when a customer withdraws cash from the machine(10).

4.2. Draw a sequence diagram for the same system. Explain why you might want to develop both activity and sequence diagram when modelling the behaviour of the system. (10)

Question 5 [10 marks]

List and discuss five (5) non-functional of the system which the choice of architectural style and structure should depend on?

Question 6

[10 marks]

Explain four fundamental architectural views as suggested by Krutchen 1995.

Question 8

[20 marks]

Looking at your community and using your own example, what system need to be developed to be to the benefits of the community that you are living in? Explain in details?