



FACULTY OF SCIENCE

ACADEMY OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

MODULE	IT00300/IT08X30 SOFTWARE FACTORIES
CAMPUS	APK
EXAM	NOVEMBER 2014

DATE: 7/11/2014

SESSION: 8:30 – 10:30

ASSESSOR(S)

Prof JJ Langerman
(Standard Bank)

INTERNAL MODERATOR

EXTERNAL MODERATOR

Prof AC Leonard (UP)

DURATION: 2 Hours

MARKS: 100

THIS PAPER CONSISTS OF 2 PAGES INCLUDING THE COVER PAGE

INSTRUCTIONS:

1. Answer **ALL** the questions.
2. Write neatly and legibly.
3. Read the questions thoroughly.
4. Ensure that all questions are clearly marked on the answer sheet.

Question 1

The role of Chief Information Officer of an organisation is generally riddled with ambiguity. It is therefore critical to clarify the role and the expectations of the role.

- a) Discuss the different types of CIO roles and the scope of the role. (15)
- b) If you get employed as a Utility type of CIO, how will your performance be measured (4)

[19]

Question 2

Controlling costs is an essential part of value driven IT Management. Discuss the different cost management activities that will help with cost control.

[7 x 3 = 21]

Question 3

Using Lax and Sebenius' (3D Negotiation, HBR, 2003) 3D model for negotiation as a framework, describe how you will go about negotiating a deal for procuring a software package. Incorporate Streetwise tactical ploys and concepts from Fisher's "Getting to Yes" into your answer.

[14]

Question 4

The DevOps term inherits its roots from previous methodologies such as agile and lean. Holistically discuss all the facets of DevOps as outlined by Wurtner *et al* (Gartner, Emerging Technology Analysis: DevOps a Culture Shift, Not a Technology, August 2013)

[20]

Question 5

Enterprise Architecture is important to understand and shape an enterprise. Discuss the different perspectives and abstractions of the Zachman Framework and how it translates into a fully functional enterprise.

[20]

Question 6

Managing software development is a demanding and stressful job. List any 6 rituals that one can establish to renew their energy?

[6]

TOTAL: [100]