



FACULTY OF SCIENCE

ACADEMY OF COMPUTER SCIENCE AND SOFTWARE ENGINEERING

MODULE IT00247 & IT28X47
ETHICAL & LEGAL ASPECTS OF IT

CAMPUS APK

EXAM JANUARY 2017 (SSA)

DATE January 2017 **TIME** -

ASSESSOR DR WS LEUNG

EXTERNAL MODERATOR PROF M GERBER (NMMU)

DURATION 2 Hours **MARKS** 100

INSTRUCTIONS

- 👁 This question paper comprises 3 (three) pages (including this cover page)
- 👁 Answer ALL questions
- 👁 Mark each answer correctly and answer entire questions contiguously - if this is not possible, clearly indicate that your answer continues later in the assessment script
- 👁 Write clearly and legibly - marks will not be awarded if the lecturer is unable to make sense of what has been written
- 👁 Keep answers relevant to the course content - note that most questions require that you support your answer with background knowledge (*use the mark allocation to determine whether you will need to support your answers*)
- 👁 Take note of the marks allocated for each question - it is highly advised that a minimum of x facts is provided if the question is out of x marks.

**DO NOT TURN OVER THIS QUESTION PAPER UNTIL YOU
HAVE BEEN GIVEN INSTRUCTION TO**

Question 1: Essay (Ethical and Legal)

In his article entitled Can You Program Ethics into a Self-Driving Car?, Goodall (2016) argues that it is acceptable for autonomous vehicles to not be perfect, as long as they exhibit actions that consider ethical implications. Considering both ethical and legal implications, do you agree with his assertion?

In the form of a carefully structured and logically discussed essay that makes reference to the Goodall text, discuss:

- a) What are the various potential ethical issues that could arise from encoding ethics into self-driving vehicles? (18)
- b) Would the scenarios presented in the Goodall text require South Africa to introduce new legislation should self-driving cars be permitted on its roads? Motivate your answer and relate it to how South Africa introduces new legislation. Your essay should include a discussion on the following: (18)
 - ◆ Uncertainty in law
 - ◆ Rationale for introducing new legislation
 - ◆ The process of how new legislation is passed in South Africa.

A final four (4) marks are allocated to having answered the essay's overall question in the introduction and/or conclusion.

[40]

Question 2: Ethics

keep legal matters out of your answers in this section

- a) Is African ethics similar to the three Eurocentric ethical theories (Deontology, Utilitarianism, and Virtue Ethics) covered in the course of this module? Motivate your answer by: (6)
 - ◆ Introducing the main concept espoused by each Eurocentric theory (3)
 - ◆ Comparing the concept to African Ethics (3)
- b) Rossouw (1994) believed that existing ethical theories were insufficient to deal with making moral business decisions in the modern era, resulting in the development of a strategy to tackle this shortcoming. (4)
 - ◆ Provide the full name of the strategy (1)
 - ◆ Describe how the strategy compares to the other two alternatives (3)
- c) According to Davis, what justifications should exist before employees are morally obliged to whistle-blow? (4)
- d) When it comes to assessing responsibility, name and describe the three ways in which harm can be done. (6)
- e) Name and describe the two categories of morality. (6)
- f) Provide two strong arguments that Friedman put forward against companies exhibiting social responsibility. (2)

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Question 3: Legal

keep ethical matters out of your answers in this section

- a) According to Mangena (2016), will the draft Cybercrime and CyberSecurity Bill provide the necessary legislation to protect South Africa's virtual space? Discuss. (10)
- b) George Martin is a HUGE fan of Game of Thrones. He often jokes that it must be because the author of the series (George R. R. Martin) shares his name. George likes Game of Thrones so much that he would like to create **George Martin's Game of Thrones Fansite**, a website dedicated to all things relating to the shenanigans of the noble folk in Westeros (and beyond). (10)

George is however aware of the possibility that his enthusiasm and love may not be as well received by those pesky copyright lawyers. He has therefore approached you to advise him on how to proceed.

Your advice should include a discussion on what copyright and the two rights that are afforded to copyright owners are. Make sure that George receives guidelines of what his limitations on making fansites should be.

- c) Several civil societies in South Africa are pushing for VBS Mutual Bank to divulge information about President Zuma's R7.8 million home loan. VBS Mutual Bank has naturally refused, citing privacy concerns. From a legal perspective, do you believe that this information should be withheld or revealed? Support your answer by describing the eight principles of the POPI Act, as well as legitimate expectations of privacy. (10)

[30]

The End!

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