



## **College of Business Peace leadership and Governance**

**CIS 401 SYSTEMS ANALYSIS DESIGN AND IMPLEMENTATION**

**END OF FIRST SEMESTER EXAMINATIONS**

**NOVEMBER/DECEMBER 2018**

**LECTURER: Mr W Govere/Mr O Magwagwa**

**DURATION: (3 HRS)**

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### ***INSTRUCTIONS***

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**1. ANSWER ANY FOUR QUESTIONS**

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**2. START EACH QUESTION ON A FRESH PAGE**



*Answer any four (4) questions. Each question carries 25 marks.*

**Question 1**

- a) Briefly explain any two activities that are carried out at each stage of the waterfall model. [10]
- b) What are the major issues that a good methodology should address? [5]
- c) Discuss the various critiques to the traditional systems development life cycle. [10]

**Question 2**

- a) Who are systems analysts and what roles do they play in organisations? [8]
- b) Africa University is considering hiring a recent graduate to fill in a vacancy as a systems analyst. Briefly describe the skills that the University would consider for such an individual. [8]
- c) Clearly distinguish between systems analysis and systems design. [6]
- d) What do you understand by techniques in systems analysis and design? [3]

**Question 3**

- a) SDLC reflects on management style and culture of the organisation. Discuss? [9]
- b) A supermarket has a policy for cashing customers' cheques as per the given rule. If the cheque is a personal cheque for \$100 or less the cheque can be cashed. If the cheque is the customers' pay cheque it can be cashed for over \$100, provided it is company accredited by the supermarket. Using this logic, construct:
  - i. A decision table. [8]
  - ii. A decision tree. [8]

**Question 4**

- a) Explain what is meant by prototyping and why it is used in systems development. [6]
- b) Explain the differences between throwaway prototyping and systems (or evolutionary) prototyping and how each approach is used in systems development. [10]
- c) Describe the basic process of User Interface Design and the role that prototyping plays in this process. [9]

**Question 5**

Describe the phases of the Systems Development Life Cycle explaining the involvement of the Infrastructure Analyst in the development life cycle. [25]

**END OF EXAMINATION**