



**SCHOOL OF PROFESSIONAL STUDIES
BACHELOR OF INFORMATION COMMUNICATION TECHNOLOGY/BACHELOR OF
BUSINESS INFORMATION TECHNOLOGY**

UNIT CODE: BBIT212/ BCT217: SYSTEMS ANALYSIS AND DESIGN

SEPTEMBER – DECEMBER, 2018 END SEMESTER EXAM

– 2 HOURS

INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO QUESTIONS

Question One

- a. Differentiate between System Analysis and Design. (4 marks)
- b. Distinguish between *Deterministic* and *Probabilistic* systems citing an example in each case. (6 marks)
- c. Explain any five skills required for System Analyst. (10 marks)
- d. Outline four golden rules of interface design. (4 marks)
- e. Zawadi, a system analyst in a certain company wishes to design an inventory management system for the company. Explain **three** types of interfaces that she may include in the system. (6 marks)

Question Two

- a. Explain any four types of feasibility that should be carried out by a systems developer. (8 marks)
- b. Discuss two methods that can be used when implementing a new system to an organization. (4 marks)
- c. Define the term system as used in Information Technology. (3 marks)

Question Three

- a. Explain any four advantages of Agile Software development approach as used in systems development. (8 marks)
- b. Citing examples, define the term stakeholder as used in System Development and Analysis. (4 marks)
- c. Explain what a prototype is and describe how it can be used in Requirements gathering. (3 marks)

Question Four

- a. Explain system development model in detail. (10 marks)
- b. Outline any five elements of a system as used in system design. (5 marks)

Question Five

- a. Explain the differences between a physical and a logical data flow diagram (DFD). (10 marks)
- b. Define Rapid Application Development model as used in systems development. Outline any three benefits associated with this approach. (5 marks)