CROSS RIVER UNIVERSITY OF TECHNOLOGY, CALABAR
DEPARTMENT OF COMPUTER SCIENCE

COURSE CODE: CSC 3102
COURSE TITLE: SYSTEM ANALYSIS AND DESIGN **TIME: 2HRS 30MIN**
INSTRUCTION: Answer question one and any other three

1. (a) Consider each user who works with a system and answer the following questions:
   What information does that person receive from other people? What information does this person generate? How is this information communicated? How often does information occur? How much down-time occur? How much support does this user require and who provides it?
   (b) What is a central objective of a system and what are the element of the system? Define each of the three chosen.

2. (a) What is structured analysis? What are the steps an analyst should follow to design an information system and what are its elements?
   (b) What is feasibility study? What are the results or findings that should be noted in a feasibility reports?
   (c) Explain data flow diagram?

3. (a) What is SDLC? Using a life situation, explain SDLC, and what are the phases?
   (b) Explain the tools used in structured design?
   (c) Explain information gathering techniques?

4. (a) What is a system model? Explain types of a system model?
   (b) What factors determines a company who goes outside its organization to develop a new system?
   (c) Explain a common technique that allows users to participate in various development task?

5. (a) What is top-down and bottom-up approach in system analysis?
   (b) Explain the action of decision tables, decision trees and how it helps to facilitates operations.
   (c) In your own word, what is system appraisals and how does it help?

6. (a) To reconstruct a system, what key factors do you consider?
   (b) Write short note on the following:
   Algorithm, Parallel runs, Pilot runs, Structured chats, Alpha testing, Transposition error, Environment, Boundary, Interface

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First semester examination 2017/2018 session

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INSTRUCTION: Answer four questions only. Question three is compulsory

QUESTION ONE

a. What do you understand by the term system model, state and explain types of system models.
b. Suppose you decide to become an analyst after you graduate. What type of analyst would you most prefer to be? What type of job would you seek?
c. Develop a short plan that describes how you will prepare for your career as an analyst.

QUESTION TWO

a. What is system prototype, discuss the disadvantages of prototype.
b. What do you understand by the term feasibility analysis, state and explain types of feasibility.
c. List and explain SDLC phases.

QUESTION THREE

a. Explain the importance of linking the information system to business needs.
b. Give brief discussion on the following: Modularization, Structure English, Decision table, Data flow diagram, Requirement investigation, Requirement specification, Incremental testing.
c. List and explain the properties of a system.

QUESTION FOUR

a. Discuss the importance of documentation control in system analysis.
b. What are the factors affecting system complexity?
c. List and discuss the attributes of a system analyst

QUESTION FIVE

a. What is Top-down strategy and Bottom-up strategy?
b. List and explain structure analysis and tools
c. List and explain the different types of systems.

QUESTION SIX

a. List the steps in carrying out feasibility analysis
b. Enumerate the contents of feasibility analysis report
c. Describe different types of problem related to a system.