

**UNIVERSITY OF AGRICULTURE, ABEOKUTA**  
**COLLEGE OF NATURAL SCIENCES**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**2009/2010 SECOND SEMESTER EXAMINATION**

TITLE OF THE COURSE: CSC 326- SYSTEM ANALYSIS AND DESIGN  
TIME: 2 HOURS  
INSTRUCTION: ANSWER ALL QUESTIONS FROM SECTION A  
AND TWO QUESTIONS FROM SECTION B.

**SECTION A**

- (1) Identify the components of a computer-based information system
- (2) What is decomposition? What is the implication of decomposition to a system analyst?
- (3) Identify and briefly define the four important system concepts that system analysts need to know.
- (4) List the four types of skills an analyst should possess.
- (5) Describe process oriented and data oriented systems
- (6) What is entity relationship planning system?
- (7) Define Information Engineering.
- (8) Describe the difference between an object and a class
- (9) List the advantages of using system analysis and design technology in approaching computerized information system.
- (10) List four reasons for adoption of CASE tools?
- (11) Describe how the technology of m-commerce enhances the work of a system analyst
- (12) Model-driven approach is enhanced by the use of automated tools such as what?
- (13) In UML, what is meant by the term interface?
- (14) Describe the difference between a primary use case and use case scenarios.
- (15) What are the six basic ideas that characterize object oriented programming?

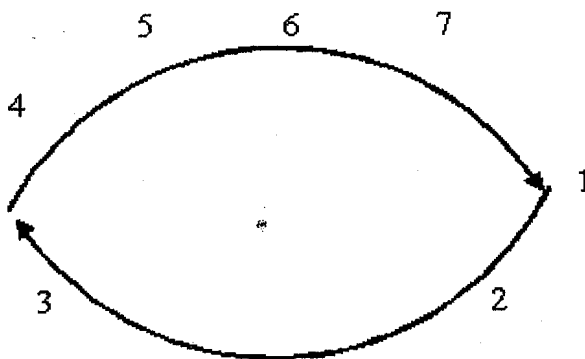
## SECTION B

### Question 1

- What is UML? How does it differ from the Coad and Yourdon OOA- OOD method?
- What are the primary elements of UML?
- Describe the importance of UML diagramming before extensive coding
- What are the categories of structural things that UML defines?

### Question 2

- What do you understand by the word System Life Cycle?
- Briefly discuss system documentation and explain why system documentation is not a separate stage/phase in system development life cycle.
- By completing the diagram below, describe the operations of the system development life cycle (SDLC).



### Question 3

- Define ERP and state its purpose.
- What problems do analysts often encounter when they try to implement an ERP package?
- How can a System Analyst help in improving an organization?
- What are the implications of the structure of Management Information System?