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

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

Question 2

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

```
4  5  6  7
3  2  1
```

Question 3

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