

BINT 0214: SYSTEM ANALYSIS AND DESIGN

1. Answer Question ONE and any other THREE Questions.

QUESTION ONE [25 MARKS]

- a. Define the following terminologies as used in system analysis and design
 - i. System [2 marks]
 - ii. System performance [2 marks]
 - iii. User needs [2 marks]
 - iv. Data analysis [2 marks]
- b. Highlight six important elements of a fully functional system. [6 marks]
- c. Identify five important characteristics of open systems. [5 marks]
- d. Explain how would an analysis determine the users' needs for a system. [3 marks]
- e. Elaborate how planning dimensions determine information system development. [3 marks]

QUESTION TWO [15 MARKS]

- a. Identify the eight steps involved in feasibility analysis. [4 marks]
- b. What is the difference between technical feasibility and behavioral feasibility? [4 marks]
- c. What is the importance of feasibility study? [3 marks]
- d. Give four reasons why is it necessary to conduct cost/benefit analysis. [4 marks]

QUESTION THREE [15 MARKS]

- a. What are differences between tangible costs and direct costs? [4 marks]
- b. Highlight five advantages of a data base system. [5 marks]
- c. Briefly discuss the different types of systems. [6 marks]

QUESTION FOUR [15 MARKS]

- a. Differentiate the following major system models:
 - i. Schematic and flow [2 marks]
 - ii. Static and Dynamic [2 marks]
- b. To develop a good system, certain steps are followed. Briefly discuss the five stages of system development life cycle. [10 marks]
- c. What is System Development Life Cycle? [1 mark]

Question five [15 marks]

- a. Systems are classified in four different ways, Explain four classifications. [8 marks]

- b. Give FIVE reasons why is it difficult to determine user requirements. [5 marks]
- c. What is the purpose of preliminary investigation? [2 marks]

QUESTION SIX [15 MARKS]

- a. Briefly discuss four essential characteristics of a system. [8 marks]
- b. List the FIVE steps followed when determining costs and benefits. [5 marks]
- c. What is structured analysis? [2 marks]