Course Code:CIT721
Course Title: Information Systems Design and programming
Credit Unit:3
Time Allowed: 3hrs

Instruction: Attempt any five (5) questions

Questions

QUESTIONS 1

    a. Briefly explain MIS. (3 marks)
    b. State and briefly explain the 5 elements of a usable MIS system. (10 marks)
    c. List 2 pieces of information that should be contained in an MIS system user manual. (1 marks)

QUESTIONS 2

    a. Discuss briefly (listing examples where possible) the following database models:
        i. Relational (4 marks)
        ii. Object-oriented (4 marks)
    b.
        i. Give 3 examples of questions that should be answered when analyzing a system. (1.5 marks)
        ii. Briefly explain the 3 steps of the systems approach to system analysis. (4.5 marks)

QUESTIONS 3

a. Briefly explain the 3 levels of organizational information. (9 marks)

b. Define the following terms:

    iii. Transaction Processing System(1 mark)
    iv. Office Automation System (1 mark)

v. Expert System (1 mark)

c. State 4 primary objectives of structured techniques in information system development (2 marks).

QUESTIONS 4

a. Briefly discuss the definition and functions of the following roles:

i. Business analyst (4 marks)
ii. Application analyst (3 marks)
iii. Computer scientists (3 marks).

b. In order of execution, list (without explanation) the 8 phases of the SDLC. (4 marks)

QUESTIONS 5

a. State 3 reasons for the failure of the monopolist approach to management of SDLC. (3 marks)
b. Explain briefly the laissez-faire approach to management of SDLC stating its potential pitfalls (6 marks)
c. Explain briefly information-center approach to management of SDLC stating reasons for its potential demise in organizations (5 marks)

QUESTIONS 6

a. Complete the following table: (8 marks)

Step	People involved	Brief descriptions
Problem definition		
Analysis and design		
Testing and debugging		
Implementation		

b. List and explain 4 benefits of RAD. **(6 marks)**

QUESTIONS 7

a. Briefly explain DSS (3 marks).

b. List 5 benefits of an information system to organizational information. (2.5 marks)

c. Explain briefly the key features of the monopolist approach to management of SDLC(3.5 marks).

d. State any 5 stages of data processing system growth (2.5 marks).

e. Define the term "Risk identification" and state 4 categories of risks to information systems projects. (2.5 marks)