National Open University of Nigeria
Plot 91, Cadastral Zone, Nnamdi Azikwe Express Way, Jabi – Abuja
Faculty of Sciences
2023_1 EXAMINATIONS

Course Code: CIT721
Course Title: Information Systems Design and programming
Credit Unit: 3
Time Allowed: 3 hrs
Instruction: Attempt any four (4) questions. Question 1 is compulsory and any other 3 questions

Question 1

a) Explain each of the following:
(i)   Closed system.(2 marks)
(ii)   Open system. (2 marks)
(b) In order of execution, outline the 8 phases of the SDLC. (4 marks)
(c) State and briefly explain the 5 elements of a usable MIS system. (10 marks)
(d) Discuss briefly (listing examples where possible) the following database models:
- Relational (2 marks)
- Object-oriented (2 marks)
(e) List the stages associated with System Development Life Cycle (SDLC) (3 marks)
                              [25 marks]
Question 2

(a) Outline and explain the Transformation Process. (6 marks)
 (b) State 4 primary objectives of structured techniques in information system development (4 marks).
 (c) In order of execution, list the 8 phases of the SDLC. (5 marks)
                              [15 marks]
Question3

(a) State the major ways in which interviews in data collection method can be conducted. (2 marks)
(b) Enumerate two advantages and four disadvantages of Interviewing (7 marks)
(c) Explain briefly the laissez-faire approach to management of SDLC stating its potential pitfalls (6 marks)

Question 4

(a). Discuss the qualities of good information. (9 marks)
(b).List the six (6) stages of data processing system (3**marks**)
 (c) What are the categories of risk to information system projects?(3 marks)
                              [15 marks]

Question 5

(a) Outline and explain three reasons for System Projects? (6 marks)
(b) identify the four basic steps required to complete analysis and design cycle (3 marks)
(c) Explain any three (3) types of models (6 marks)

[15 marks]

Question 6

(a) Explain at least five problems that have blocked the success of management information systems
(5 marks)
(b) Identify and explain two sort of information that organizations need (4 marks)
(c) Distinguish between management information system and decision support system (6 marks)

[15 marks]

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