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NATIONAL OPEN UNIVERSTYOF NIGERIA, University Village, 91 Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja FACULTY OF SCIENCE DEPARTMENT OFCOMPUTER SCIENCE SEPTEMBER, 2020 EXAMINATIONS

COURSE CODE: CIT 721

COURSE TITLE: Information Systems Design and Programming

COURSE UNIT: 3 UNITS TIME ALLOWED: 2 ½ Hrs

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER FOUR (4) QUESTIONS

QUESTION ONE

- 1a) With the aid of a diagram, illustrate the relationship between the internal and external components of a system? (3 marks)
- 1b) Integrity is a major database issue. Justify with examples what manipulations could compromise data integrity? (3 marks)
- 1c) Mention and explain the major steps in the analysis and design cycle. (3 marks)
- 1d) Compare the relationship between the following information subsystems: TPS, MIS, DSS, EIS and ES (6 marks).
- 1e) Differentiate between the factors that determine the feasibility of a system. (3 marks)
- 1f) Analyze the steps for formalizing evaluation procedure in systems analysis and design. (4 marks)

QUESTION TWO

- 2a) An IT organization is situated on a rectangular piece of land and there have been incidences of missing computers and other valuables. Now the company decides to put a perimeter fence to check mate the situation. Construct or build a simple mathematical model that will enable them to determine the perimeter of the fence. Use single lettered and meaningful variables. State what each variable stands for.
 - (5 marks)
- 2b) Identify five causes of requirement change. (5 marks)
- 2c) Analyze the components of an information system? (2 marks)

QUESTION THREE

- 3a) State the primary objectives of structured techniques. (6 marks)
- 3b) Identify four most important reasons for initializing system projects. (4 marks)
- 3c) Differentiate between data and information. (2 marks)

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QUESTION FOUR

Using the following approaches differentiate how conflict are resolved between end-user and Information System department

- a) Monopolist Approach (4 marks)
- b) Laissez-Faire Approach (4 marks)
- c) Information Center Approach (4 marks)

QUESTION FIVE

- **5a)** Identify any six internal and six external sources of data when collecting data during systems analysis. (**6 marks**)
- **5b)** During project planning, System Boundary Document (SBD) elements are produced and presented for approval. Enumerate any four of them. **(6 marks)**

QUESTION SIX

- 6a) What is acquisition strategy development. (2 marks)
- 6b) A high-level programming language should possess certain characteristics. Identify these characteristics. (5 marks)
- 6c)_Differentiate between an imperative language and a functional language. (5 marks)

