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# NATIONAL OPEN UNIVERSITY OF NIGERIA, PLOT 91, CADASTRAL ZONE, UNIVERSITY VILLAGE, JABI – ABUJA FACULTY OF SCIENCES

2022\_2 Examination

**Course Code: CIT721** 

**Course Title: Information systems Design and Programming** 

Time: 2<sup>1/</sup><sub>2</sub> Hours

**Credit: 3 Units** 

**Instruction:** Attempt 4 questions. Question1 is Compulsory and any other three (3)

#### **Questions One**

- 1(a) Differentiate between Information System (IS) and Information Technology (4 marks)
- 1(b) Outline and explain the elements of a system (4 marks)
- 1(c) Describe two (2) measures of system performance (4 marks)
- 1(d) Enumerate and explain four Components of Computerized Information System (4 marks)
- 1(e) State at least three concerns in end-user computing.(3 marks)
- 1(f) Outline and Explain three Quality of Information (6 marks)

[25 marks]

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#### **Question Two**

- 2(a) State and explain three characteristics of a good systems analyst (6 marks)
- 2(b) Outline any four (4) concerns associated with little control over of end-user computing (5 marks)
- 2(c) Enumerate the six stages of data processing system (DPS) growth (3 marks)
- 2(d) Identify two Sources of Project Requests (2 marks)

[15 marks]

#### **Question Three**

- 3(a) Write short notes on the following:
  - (i) Organizational Purpose
  - (ii) Organization Culture
  - (iii) Organization Structure (2 marks each)
- 3(b). Describe any four (4) types of Organization structure (4 marks)
- 3(c). Enumerate any six major external sources of Data collection (3 marks)
- 3(d) Describe an Adaptive System (2 marks)

[15 marks]

#### **QUESTION FOUR**

- 4(a) Outline the four basic steps of system analysis and design cycle? (4 marks)
- 4(b) Differentiate between data and information. (4 marks)
- **4(c)** State four usefulness and procedures for system investigation (4 marks)
- **4(d)** A high-level programming language should possess certain characteristics. Identify 3 characteristics. (3 marks)

[15marks]

#### **OUESTION FIVE**

**5(a)** Outline and explain four (4) data analysis techniques you have studied in this course (6 marks)

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- **5(b)** Outline the different types of models as studied in this course and describe any two (6 marks)
- 5(c) Outline three (3) major general design considerations in System Design (3 marks)

[15 marks]

#### **QUESTION SIX**

- 6(a) Distinguish the difference between a system flowchart and a program flowchart. Why are both types of flowcharts useful when developing application software? (6 marks)
- 6(b) Many of the software crisis came as a result of decrease in hardware costs which has occurred over the years. Expatiate. (3 marks)
- 6(c) Enumerate and explain three categories of Information System (6 marks)

[15 marks]