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NATIONAL OPEN UNIVERSITY OF NIGERIA

CIT 353: INTRODUCTION TO HUMAN COMPUTER INTERACTION Credit: 2 units

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer Question 1 and any other Three (3) Questions

- 1(a) Define Moore's law. (3 marks)
 - (b) Justify the validity of Moore's law in the year 2020 using related computer specifications known to you. (4 marks)
 - (c) What are the implications of your response in (1b) on finite speed? (3 marks)
 - (d) Identify the components of the interaction model in human computer interaction. (3 marks)
 - (e) Explain the concept of software engineering. (5 marks)
 - (f) Describe the activities in the software lifecycle. (7 marks)
- 2. (a) What is a pattern in human-computer interaction? (2 marks)
 - (b) List any three (3) characteristics of a pattern. (4 marks)
 - (c) Enumerate 2 ways of identifying aspects of a widget. (2 marks)
 - (d) "Not every computer requires a user interface". Explain the implications of this statement in relation to computer information systems. (4 marks)
 - (e) List any three (3) perceptual principle in display design. (3 marks)
- 3 (a) Explain briefly the following computer terms: (i) Menu (ii) Natural Language (iii) Query Interfaces (iv) Spreadsheets (v) cascading menu (7½ marks)
 - (b) List any five (5) elements of a WIMP interface. ($2\frac{1}{2}$ marks)
 - (c) State five critical issues of consideration in menu design. (5 marks)
- 4 ((a) Define design rationale. (2 marks)
 - (b) List three (3) associated benefits of design rationale. (3 marks)
 - (c) Write the syntax for a typical read-evaluation loop the Figure below. (5 marks)
 - (d) List any five (5) Scheiderman's golden rules of design. (5 marks)
- 5(a) A facial recognition software organization intends to capture a major market segment from it's rival competitor. As an expert in the field of human computer interaction, identify a specific usability evaluation technique required in achieving the objective. Give reasons for your answer. (6½ marks)
 - (b) For a large domain and based on your response in 3(a) above, what knowledge representation technique would you represent the knowledge gathered from prospective users? (2 marks)
 - (c) List three (3) techniques applicable in knowledge representation. ($1\frac{1}{2}$ marks)

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