



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF SCIENCE
OCTOBER/NOVEMBER 2016 Examination

Course Code: CIT703
and Software Development

Course Title: Information Technology

Course Unit: 3

Time Allowed: 3 Hours

Instruction: Answer Any Five Questions

- 1a. Explain what is meant by software process. 5 marks
- b. State the purpose of software process. 4 marks
- c. List five goals of software process. 5 marks
- 2a. Define Software Documentation. 2 marks
- b. List any six guidelines to Software Documentation. 12 marks
- 3a. Explain what is meant by DFD. 4marks
- b. List five advantages of DFDs. 5 marks
- c. State the five basic constructs used by DFDs. 5 marks
- 4a. What is a transition network? 4 marks
- b. State two uses of a transition network. 4 marks
- c. Transition networks are closely related to finite state machines (FSM), and to data flow diagrams (DFD), but they are augmented with the other capabilities. Give three of such capabilities. 6 marks
- 5a. Explain what is meant by a database model. 4 marks
- b. Outline any four different types of database model. 10 marks
- 6a. Describe what you understand by Extreme Programming (XP). 5 marks
- b. List two of the drawbacks in XP. 4 marks
- c. Describe the essence of communication in XP 5 marks
- 7a. Differentiate between security and breach. 2 marks

- b. List two types of security breach. 2 marks
- c. Outline any five sources of security breach. 10 marks