NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
JUNE/JULY EXAMINATION

COURSE CODE: CIT 703
COURSE TITLE: Information Technology and Software Development
TIME ALLOWED:3 Hours
INSTRUCTION: Answer Any Five Questions

1a	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

2a.	Explain software process model	5 marks
b..	Outline any three software process models	9 marks

3a.	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 *d*ata flow diagrams(DFD), but they are augmented with the other capabilities. Give three of such capabilities.	6 marks

4a.	What is requirements engineering?	4 marks
b.	Outline five categories of software requirements.	10 marks

5a.	Explain the UML concepts.	4 marks
b.	List two of the problems of UML	4 marks
c.	Describe the three main features of UML 2	6 marks

6a.	Explain what is meant by software development life cycle.	4 marks
b.	Outline the five activities of the software development process represented in the Waterfallmodel.	10 marks

7a	Describe what you understand by Extreme Programming (XP).	5 marks
b.	List two of the drawbacks of XP.	4 marks
c.	Describe the essence of communication in XP	5 marks

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