

NATIONAL OPEN UNIVERSITY OF NIGERIA 14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS SCHOOL OF SCIENCE AND TECHNOLOGY MAY/JUNE 2012 EXAMINATION

CIT 731 Software Engineering Methodologies Time Allowed: 3hrs		
Instruction: Answer any five (5) questions.		
1a. Give a concise definition of an architectural design. marks)	(2	
1b. Enumerate the distinct phases of the waterfall model. marks)	ı	(5
1c. State four (4) guidelines for writing requirements?	(4 mark	<s< td=""></s<>
1d. Briefly describe the three requirements validation technic marks)	ques (9)
2a. What are CASE tools? marks)	(3	
2b. List and describe six (6) attributes of a good software. (12 marks)		
2c. State five qualities required in validity checking.(5 marks)		
3a. When is re-application desirable in an existing software? marks)	(12	<u>}</u>
3b. Describe two problems of domain requirements.		

(8 marks)

4a. List five architectural models and specify their roles marks)	(10
4b. Write short notes on the following: Sub-system) Module) (3 marks each Modular decomposition)	, Total=9)
4c. What type of language is employed in writing requireme mark)	ents? (1
5a. (i) What are formal specifications? (4 (ii) State the factors on which formal specifications are b marks)	marks) ased. (4
5b. Give a brief description of the following: i) Software design ii) Structured methods each, Total=12) iii) System models)) (4 marks
6a. Software products developed by means of the spiral mo usually prone to hazards. Cite five (5) practical instances. marks)	del are (15
6b. List any five (5) components of the requirements docum (5 marks)	nent.
7a. Identify and describe two types of domain-specific mode marks)	els. (8
7b. What is the most effective technique for discovering err mark)	ors? (2
7c. State the inspection pre-conditions.	(6 marks)
7d. Identify four stages of design.	(4 marks)