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NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI-ABUJA FACULTY OF SCIENCES DEPARTMENT OF COMPUTER SCIENCE SEPTEMBER 2020_1 EXAMINATIONS

COURSE CODE: CIT 831

COURSE TITLE: SOFTWARE ENGINEERING METHODOLOGIES

CREDIT: 3 UNITS TIME ALLOWED: 2 ½ HOURS

INSTRUCTIONS: ANSWER QUESTION ONE (1) AND ANY FOUR(4) OTHERS.

1(a)	i. In comparing the cost of software and hardware, which of them cost higher?	(2 marks)	
	ii. How will software engineering influence the situation?	(1 mark)	
(b)	Describe the types of interview.	(3 marks)	
(c)	The term 'software inspections' have been defined in many ways. Review a definitions.	ny 4 of these (4 marks)	
(d)	i. What do you understand by functional requirements?	(2 marks)	
(4)	ii. Illustrate using appropriate examples, any two (2) functional requirements.	` ,	
	(e) Waterfall model consists of separate and distinct phases of spec development. With a well labeled diagram, show the distinct phases and their linka		
		(5 marks)	
(f)	Briefly explain the problems that may arise when using natural language in writing requirements		
	definitions.	(3 marks)	
2(a)	Outline the stages of software design.	(8 marks)	
2(b)	Choose and explain any four (4) attributes of a good software?	(4 marks)	
3(a)	i. What is requirement document?	(3 marks)	
	ii. Outline the guidelines for writing requirement.	(3 marks)	
3(b)	i. What is software specification?	(2 marks)	
	ii. Produce detailed description of non-functional requirements.	(4 marks)	
4(a)	Provide any four examples of the generic process model.	(4 marks)	
(b)	Describe data flow diagrams and their applications.	(4 marks)	
(c)	In what ways is evolutionary development problematic? (2 marks for	any 2 points)	
5(a)	Describe two specification techniques.	(4 marks)	
(b)	Enumerate any five (5) systematic algebraic specifications.	(5 marks)	
(c)	Incremental Development is said to be advantageous in several ways. Explain them	n. (3 marks)	
6(a)	i. Architectural design aids in decision making, justify this	(2 marks)	

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ii. Outline the decisions on the application of the architecture.	(6 marks)
(b) Explain the concept of software design.	(2 marks)
(c) Outline any four types of process model.	(2 marks)