

NATIONAL OPEN UNIVERSITY OF NIGERIA

UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA FACULTY OF SCIENCE ... 2020_2 EXAMINATION

COURSE CODE: CIT432

COURSE TITLE: Software Engineering II

CREDIT: 3 Units

TIME ALLOWED: 2½ Hours

INSTRUCTION: Answer Question ONE (1) and any other FOUR (4) Questions

1 (a)	Contrast a computer program and computer software	[5 mar	ks]	
(b)	Carry out analysis of the descriptive software life cycle model	[5 marks]		
(c)	Outline five (5) advantages of the rapid prototype model	[5 marks]		
(d) What is the motivation for work sampling method of data collection? Car Analysis of this method. [5 m				
(e)	State two (2) limitations of the formal method [2 mark		rks]	
2(a) Appraise the third generation of computers in relation to software development		ment	[4marks]	
(b) Examine the functions of operating system			[4 marks]	
(c) Justify the articulation of software life cycle model			[4 marks]	
3 (a) Analyze the weaknesses of the low level language [4		[4mar	4marks]	
(b) Demonstrate how a particular software model is used to keep software bugs out of products				
		[5 mar	ks]	
(c) Ou	tline the weaknesses of the spiral model		[3 marks]	
4 (a) Carry out a comparative analysis of the waterfall model and the Build-and-fix model [6 marks]				
(b) Demonstrate the relationship between system analysis and system design			[6 marks]	

- 5 (a) Give the name of data collection method that you will recommend to a development team that want to understand how the manual system operates and list six (6) documents that such a team will need. [4 marks]
- (b) What are the necessary knowledge a systems analyst needs to write system requirements specifications? [4 marks]
- (c) Analyze the four (4) qualities of good code.

[4marks]

6(a) Given the following Earned Value (EV) indicators:

BAC = 330 days; BCWP = 190 days; BCWS = 250 days; ACWP = 220 days. Calculate the following;

(i)EV, (ii) SPI, (iii) SV, (iv) CPI, (v) CV and (vi) BR

[9 marks]

(b) Criticize the use of the Earned value model

[3 marks]