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NATIONAL OPEN UNIVERSITY OF NIGERIA

UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY, JABI, ABUJA FACULTY OF SCIENCE 2021 EXAMINATION ...

COURSE CODE: CIT 432 COURSE TITLE: Software Engineering II CREDIT: 3 Units TIME ALLOWED: 2¹/₂ Hours INSTRUCTION: Answer Question ONE (1) and any other FOUR (4) Questions

1(a) Justify the study of software engineering [5 marks]

- (b) Carry out analysis of the prescriptive software life cycle model. [5 marks]
- (c) Outline any three (3) disadvantages of the waterfall model. [3 marks]
- (d) Discuss any four (4) merits of interview method of data collection [4 marks]
- (e) Differentiate between Denotational Semantics and Operational Semantics [5 marks]

2 (a) Appraise the fourth generation of computers in terms of software development [4 marks]

(b) List five (4) automatic generating functions used in manipulation of words in a word processing software. [4 marks]

(c) What are the opportunities areas and sample direction in software development [4 marks]

3 (a) Compare and contrast the low and high level languages [5 marks]

- (b) Give a brief analysis of the V-Model [5 marks]
- (c) Outline the two (2) main components of feasibility study [2 marks]

4 (a) Carry out a comparative analysis of the Spiral model and the Rapid prototyping model [6 marks]

(b) Perform an analysis of software testing and integration and outline the difference between unit testing and system testing . [6 marks]

5 (a) Describe how data is collected using on-site data collection method and name 3 merits of such a data collection instrument. [4 marks]

(b) Sate the four (4) goals of system requirements specifications as proposed by Sajan, M. (2001) [4marks]

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(c) In order for a programmer to realize an error-free, readable and maintainable codes, he has to observe certain basic rules. State 4 of such rules [4 marks]
6(a) Give the syntax of the Select Case Construct [4 marks]
(b) Compare Top-down integration testing and Bottom-up integration testing [4 marks]
(c) Name four (4) features of VDM [4marks]