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NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWASY, JABI-ABUJA FACULTY OF SCIENCES DEPARTMENT OF COMPUTER SCIENCE

2021_1 EXAMINATIONS

COURSE CODE	:	CIT 831
COURSE TITLE	:	Software Engineering Methodologies
CREDIT UNIT	:	3
TIME ALLOWED	:	2.5 HOURS
INSTRUCTION	:	Answer Questions 1 (One) and Any Other Four (4)

- 1a) Briefly summarize the problems of Evolutionary Development (3 marks)
- b.) What characteristics should a Quality Software products possess (3 marks)
- c) Explain the following terms as associated with CASE (**3marks**)
 - Functional perspective i)
 - Process perspective ii)
 - Integration perspective iii)
- d) Write Short notes on the following terms:
- Sub-System ii) Module iii) Modular Decomposition Models (6 marks) i)
- e) Outline six major parts of a requirement document. (3 marks)
- f) Describe any four data model types (4marks)
- 2a. What are the shortcomings of Prototyping? (6 marks)
- 2b.) What type of systems is Evolutionary Development method suitable for? (3marks)
- 2c.) Arrange the following in software development activities in their correct order:
 - (i) Validation (ii) Evolution (iii) Development (iv) Specification? (3 marks)
- 3a) Briefly describe four generic activities involved in evolutionary process of a software product (6 marks)
- b.) Write short notes on the following terms:
 i) Software Process (2 marks)
- Software Process Model (2 marks) ii)
- Requirement engineering (2 marks) iii)

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- 4a) Explain the various specification techniques? (4 marks)
 - b) Outline the features of a quality Software (3 marks)
 - c) What is software engineering methodology? (2marks)
 - d) With any one example, Describe the types of software products available (3marks)
- 5a) What is Requirement Validation? Explain why Requirement validation is necessary in Software engineering process (*4marks*)
- **5b**) Explain the necessary steps you would follow while building a prototype of Students' Results System? (6 marks)
- 5c) Enumerate the Systematic ways of Algebraic Specification (2 marks)
- **6a**) What are the composition of Architectural design decisions? State the common Architectural design decisions across all software engineering processes. (*7 marks*)
- 6b) Describe the requirement validation checks you know? (5 marks)