



NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Plot 91, Cadastral Zone, Nnamdi Azikiwe Express
Way, Jabi, Abuja
FACULTY OF SCIENCES
JULY 2017 EXAMINATION

Course Code: CIT 831

Course Unit: 3

Course Title: Software Engineering Methodologies

Instruction: Answer Question One and Any Four Other Questions

Time allowed: 2 1/2

- 1a. Enumerate three attributes of a good software
6 marks
- b. What are CASE Tools?
4 marks
- c. Distinguish between testing and debugging.
6 marks
- d. Write a short note on Software Requirements Engineering
6 marks

- 2a. What are the requirements for an engineering process?
4½ marks
- b. List and explain three types of requirements
6 marks
- c. Explain how viewpoints are identified?
1½ marks

- 3a. List and explain the different types of interview
3 marks
- b. List the guidelines for writing requirements
4½ marks
- c. With the aid of a well labeled diagram describe the waterfall life cycle paradigm
4½ marks

- 4a. What do you understand by requirements management?
3 marks
- b. Describe any three architectural models.
3 marks
- c. Discuss two problems with the prototyping
6 marks

- 5a. State three disadvantages of repository models
3 marks
- b. Write a short note on the relevance of system modelling
5 marks

- c. List the modular decomposition models.
4 marks
- 6a. What is the principal benefit of formal methods?
2 marks
- b. Enumerate and explain the specification operations.
4 marks
- c. Write a short note on the following
 - i. Sub-System
 - ii. Module
 - iii. Modular Decomposition

6 marks