



**NATIONAL OPEN UNIVERSITY OF NIGERIA,  
14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS.  
SCHOOL OF SCIENCE AND TECHNOLOGY  
OCTOBER/NOVEMBER 2016 EXAMINATION**

**COURSE CODE:** CIT 333

**COURSE TITLE:** Software Engineering 1

**TIME ALLOWED:** 3 Hours

**INSTRUCTION:** Answer any five (5) questions.

- 1a. Outline with explanation the two categories of requirements (4 marks)
- 1b. Outline and clearly explain any five (5) sub-disciplines of Software engineering (10 marks)
  
- 2a. Explain the four (4) software engineering goals (8 marks)
- 2b. Outline any six(6) functions of software engineer (6 marks)
  
- 3a. Briefly explain software crisis (3 marks)
- 3b. Outline the seven(7) merits of top-down programming (7 marks)
- 3c. Mention the four(4) advantages of waterfall life cycle (4 marks)
  
- 4a. List and clearly explain the five(5) benefits of modular design (10 marks)
- 4b. Clearly elaborate on critical error and non-critical error (4 marks)
  
- 5a. Clearly elaborate on any four (4) principles of software engineering (8 marks)
- 5b. Outline the six(6) disadvantages of waterfall life cycle (6 marks)
  
- 6a. What are the problems faced in requirements elicitation (5 marks)
- 6b. Outline the seven (7) ways in which software crises can be manifested(7 marks)

6c. List any two(2) tools program software offers to assist in writing programs. (2 marks)

7a. Mention four(4) advantages and two(2) disadvantages of incremental model (6 marks)

7b. . Enumerate the four(4) methods used to test non-functional aspects of a software (8 marks)