



**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 432

**COURSE TITLE:** Software Engineering 2

**TIME ALLOWED:** 2 ½ Hours

**INSTRUCTION:** Answer any four (4) questions.

- 1a. Explain the four (4) characteristics of a software (8 marks)
- 1b. Software life cycle model is very important in any software development, what are the four(4) reasons for articulating software life cycle model? (8 marks)
- 1c. What is computer software? (1.5 marks)
  
- 2a. Outline three(3) advantages of waterfall model (3 marks)
- 2b. What are the three(3) disadvantages rapid prototyping? (3 marks)
- 2c. As a software engineer your software needs to be well-engineered, what are the suggestions for achieving that? (5.5 marks)
- 2d. Explain three(3) types of feasibility study (6 marks)
  
- 3a. Present a diagram showing the phases of Build-and-fix model (3.5 marks)
- 3b. Explain the four(4) types of conversion (8 marks)
- 3c. Outline three (3) advantages and three(3) disadvantages of spiral model (6 marks)
  
- 4a. Outline six(6) guidelines that help develop observation skills (6 marks)
- 4b. Mention three(3) advantages and disadvantages of Observation in data gathering (6 marks)
- 4c. Mention five (5) advantages of rapid prototyping (5.5 marks)
  
- 5a. write the four (4) reasons for software errors (4 marks)
- 5b. What are the four(4) goals of software requirement specification (4 marks)
- 5c. Outline 8 basic facts every programmer must consider while writing codes (8 marks)
- 5d. List any three (3) types of application software (1.5 marks)

6a.) List and explain with the aid of a diagram the first seven (7) phase/stage of waterfall model  
(17.5 Marks)