



NATIONAL OPEN UNIVERSITY OF NIGERIA

14/16, Ahmadu Bello Way, Victoria Island

SCHOOL OF SCIENCE AND TECHNOLOGY

October, 2013 Examination

Course code: CIT432

Course title: Software Engineering 2

Credit unit: 2 credit units

Time: 2 ½ Hours

Instruction: Answer any four (4) questions. Each question carries 17.5 marks.

- 1a. Mention 5 reasons why one would study software engineering
(12.5 Marks)
- 1b. Define software engineering (5 Marks)
- 2a. Define Utility software with an example (3.5 marks)
- 2b. Explain the following software life cycle models
- Build-and-Fix model
 - Incremental model
 - Rapid prototyping model
 - Spiral model (14 marks)
- 3a. List 2 advantages and disadvantages of a Build-and-Fix model (6 marks)
- 3b. List 3 advantages and disadvantages of rapid prototyping model (9 marks)
- 3c. Define feasibility study (2.5 marks)
- 4a. Define software conversion (3.5 marks)
- 4b. List and explain the four (4) types of software conversion (8 marks)
- 4c. List 4 advantages of a questionnaire (6 marks)
- 5a. Define iteration structure with an example (4.5 marks)
- 5b. List and explain two (2) purposes of software testing (5 marks)
- 5c. Explain blackbox and whitebox testing (8 marks)
- 6a. List and explain 3 types of software testing (10.5 marks)
- Unit testing
 - Integration testing
 - System testing
- 6b. Define software testing and integration (7 marks)