



**NATIONAL OPEN UNIVERSITY OF NIGERIA  
14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS  
SCHOOL OF SCIENCE AND TECHNOLOGY  
JANUARY/FEBRUARY 2013 EXAMINATION**

**CIT432**

**Software Engineering 2 - ( 2 Credits)**

**Total mark is 70 and each question carries 17<sup>1</sup>/<sub>2</sub> marks.**

**Answer any four (4) Questions in 2.00 Hours.**

- 1a. Define Software Engineering in your own words. (4 marks)**
- 1b. List three (3) conditions for well Engineered Software (9marks)**
- 1c. Differentiate between a program and a software (4.5marks)**
- 2a. Write a short note with at least two types on each of the following :**
  - (i) System Software**
  - (ii) Application Software**
  - (iii) Programming Languages ( 3 marks each)**
- 2b List three (3) Characteristics of a Software (4.5 marks)**
- 2c. Differentiate between a hardware and a software (4 marks)**
- 3a. How would you explain a prototype to a layman? (4 marks)**
- 3b. List and explain any three (3) software engineering models (9marks)**
- 3c. What is Software Conversion and List any three software Conversion . (4.5 marks)**
- 4a. How would you explain Software Maintenance to a layman. (7 marks)**
- 4b. Why do you think feasibility study is very important in any Project Development. (6 marks)**
- 4c. What do you understand by Software Testing and Integration (4.5 marks)**
- 5a. Explain what is meant by Data collection? (3 marks)**
- 5b. List and explain three types of Data collection instrument (9 marks)**
- 5c. How would you explain a good Code to a layman? (2.5 marks)**
- 5d List three (3) qualities of a good Code (3 marks)**
- 6a. Describe Structured Systems Analysis and Design Methodology with a diagram. (4 marks)**
- 6b. Why is Brainstorming usually the first crucial creative stage of the project management and project planning process? ( 4.5 marks)**
- 6c. Give the full meaning of the following acronyms: (9 marks)**
  - (i) WYSIWYG**
  - (ii) OOA**
  - (iii) SDLC**
  - (iv) SRS**
  - (v) VDM**
  - (vi) VDL**
  - (vii) RUP**
  - (viii) MTA**
  - (ix) CPM (1 mark each)**