



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
OCTOBER/NOVEMBER 2014 EXAMINATION

CIT 333 – SOFTWARE ENGINEERING I

Instruction: **Answer Any Four Questions**

Time Allowed: **2½ Hours**

Course Unit: 2

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| 1a. | Explain what is meant by software engineering. | 3½ marks |
| b. | List four goals of software engineering. | 8 marks |
| c. | State three principles of software engineering. | 6 marks |
| 2a. | What is software Implementation? | 6 marks |
| b. | Differentiate between critical and non-critical errors. | 5½ marks |
| c. | List three major tasks in Implementation. | 6 marks |
| 3a. | Explain what is meant by software crisis. | 6 marks |
| b. | List three sources of software crisis. | 4 ½ marks |
| c. | State seven ways by which software crisis manifests itself. | 7 marks |
| 4a. | In software, what do you understand by logical modularity? | 4½ marks |
| b. | List four benefits of modular design. | 4 marks |
| c. | List three basic approaches to designing modular program | 6 marks |
| 5a. | Define Software Quality Assurance (SQA) | 5 marks |
| b. | Outline four of the SQA activities during the Software Integration and Test Phase | 8 marks |
| c. | What is Compatibility Testing? | 4 ½ marks |

- 6a. What do you understand by programming environment? 6 marks
- b. Explain fully what are CASE Tools? 7 marks
- c. State the three categories of case tools 4 ½ marks