



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MAY/JUNE 2012 EXAMINATION

CIT 333 – SOFTWARE ENGINEERING I

Time Allowed: 2 Hours

Instructions: Answer Any Four Questions

1a. What do you understand by Software Engineering? 4
marks

b. Outline seven of the sub-disciplines of software engineering 7
marks each.

2. Over the past four decades, a set of fundamental software design concepts has evolved, each providing the software designer with a foundation from which more sophisticated design methods can be applied. Outline six of such software design concepts.

4 marks each for any 6 + 1

3. State ten of the major tasks during system implementation. $2^{1/2}$ marks each for any 10

4a. Differentiate between verification and validation. 7 marks

b. Outline three types of validation testing 6
marks each

5a. 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 6 marks

d. Outline the three kinds of errors in a system 6 marks

6a. Define Software Quality Assurance (SQA)

4 marks

b. Outline four of the SQA activities during the Software Integration and Test Phase

16 marks

c. What is Compatibility Testing?

5 marks