

**NATIONAL OPEN UNIVERSITY OF NIGERIA**

**14/16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS**

**SCHOOL OF SCIENCE AND TECHNOLOGY**

**JUNE/JULY EXAMINATION**

**COURSE CODE:** CIT333

**COURSE TITLE:** SOFTWARE ENGINEERING I

**TIME ALLOWED:**2 Hours

**INSTRUCTION: Answer Any Four Questions**

1a. What is Programming software? Give three (3) examples. 6 marks

b. Differentiate between hardware and software. 5½ marks

c. What are the three major categories of software? 6 marks

2a**.** 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

3a. List five fundamental design concepts. 5 marks

b. What are software life cycle models? 5 marks

c. Explain what is meant by modularity. 7½ marks

4a. State five steps to creating effective modules. 5marks

b. List five benefits of modular design. 5 marks

c. List three basic approaches used for designing modular programs. 7½ marks

5a. Explain what is meant by Programming Environment. 5 marks

b. What are Case Tools? Enumerate three different categories of case tools

6 marks

c. What is HIPO technique? 6½ marks

6a . 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