



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**

**SECOND YEAR EXAMINATION FOR THE AWARD OF THE DIPLOMA IN**  
**BUSINESS INFORMATION TECHNOLOGY**  
**BINT 0211: SOFTWARE DEVELOPMENT**

**1. Answer Question ONE and any other THREE Questions.**

**QUESTION ONE**

- a. What is Software [2 Marks]
- b. List and explain the major types of computer software [4 Marks]
- c. Differentiate between
  - i. bottom up and top down design [2 Marks]
  - ii. Validation and Verification [2 Marks]
- d. i) What is feasibility study. [2 Marks]  
ii) Why is feasibility study done? [4 Marks]
- e. What are some of the problems of requirements analysis. [4 Marks]
- f. Discuss reused based software development model. [5 Marks]

**QUESTION TWO**

- a. Define software process. [1 Mark]
- b. Highlight the generic software process activities. [4 Marks]
- g. State four reasons why software documentation is done. [4 Marks]
- h. Define the following terms used in requirement gathering: [6 Marks]

- i. Use cases
- ii. Ethnography
- iii. Scenarios

### **QUESTION THREE**

- a. What are some of the design levels? [3 Marks]
- b. Discuss the various software design process activities. [12 Marks]

### **QUESTION FOUR**

- a. Highlight some of the techniques for requirements elicitation and analysis [8 Marks]
- b. Discuss the requirements change management. [7 Marks]

### **QUESTION FIVE**

Explain the following: [15 Marks]

- i. Test-driven development
- ii. Requirements-based testing
- iii. Release testing
- iv. User testing
- v. Acceptance testing