

**NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**FACULTY OF APPLIED SCIENCE**  
**COMPUTER SCIENCE DEPARTMENT**  
**JULY SUPPLEMENTARY EXAMINATIONS 2005**

**SUBJECT:** STRUCTURED SYSTEMS ANALYSIS AND DESIGN  
**CODE:** SCS2104

**INSTRUCTION TO CANDIDATES**

Answer all questions in sections.

**Time: 3 hours**

**Section A.**

**QUESTION ONE**

- a) What is the purpose of the SPMP? List all the components of SPMP. [15]
- b) What is the difference between JSP and JSD? [5]

**QUESTION TWO**

- a) YSM, STRADIS, and Information Engineering are some of the structured tools, which are used for systems analysis and design. Describe the major features of these methods. [10]
- b) What is meant by SSADM? How does it seek to improve the quality of software products? [10]

**Section B.**

**QUESTION THREE**

2. Draw and describe a waterfall model. Why is this model very popular with software houses? Compare and contrast the model with rapid prototyping [20]
3. Discuss in detail all the phases of the JSD, giving examples where possible. [20]
4. POLA is touted as a solution to security concerns of processes. Explain the concept using the following key terms: Authentication and Authorization. [20]

**END OF QUESTION PAPER**