

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT OF TEXTILE TECHNOLOGY

END OF SECOND SEMESTER EXAMINATIONS – MAY 2011

TXT 2201 – SOFTWARE ENGINEERING AND COMPUTER PROGRAMMING

TIME: 3 HOURS

TOTAL MARKS: 100

INSTRUCTIONS

1. Answer **ANY FOUR** questions. Each question carries **25 marks**.
2. The first fifteen minutes should be spent reading the question paper and making notes.
3. Do not open your answer sheet until told to do so.
4. Marks will be awarded for skill in appreciating the scope of questions, clarity of argument and conciseness of presentation as well as for the knowledge displayed by the candidate.

QUESTION 1

Use practical examples to describe software systems. (25)

QUESTION 2

Draw a CPU block diagram and explain how it functions. (25)

QUESTION 3

Discuss how Information Systems improve productivity in business. (25)

QUESTION 4

Explain the three types of file structures and describe one application appropriate for each type. (25)

QUESTION 5

Compare and contrast file systems and database systems. (25)

QUESTION 6

Explain the following:

- (a) The role of an intranet. **(8)**
- (b) Decision-support systems in aiding decision-making. **(5)**
- (c) Systems entropy. **(2)**
- (d) Systems Approach to problem solving. **(10)**

END OF EXAMINATION QUESTION PAPER