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

SUBJECT: PROFESSIONAL ETHICS AND PRACTICE
CODE: **SCS2105**

INSTRUCTION TO CANDIDATES

Answer any five questions.
Each question carries 20 marks

Time: 3 hours

QUESTION ONE

a) Professional groups have governing bodies which publish ethical codes of conduct that are binding on their members. Define the objectives and activities of such bodies as the Computer Society of Zimbabwe.   [10]

b) Explains five characteristics that best describe engineering disciplines.   [10]

QUESTION TWO

Discuss how software qualifies to be a true engineering discipline.   [20]

QUESTION THREE

You have been asked by the ZRP to participate in a computer crime seminar. During the seminar a question of increasing difficulty in problems faced by law enforcements agents on successful prosecution of electronic funds theft is raised. Explain any five factors that may complicate the prosecution process.   [20]

QUESTION FOUR

a) Explain the following terms:

i) Computer Virus.   [3]
ii) Time Bomb.   [3]
iii) Worm.   [3]

iv) Hacking. [3]

b) Describe any four physical security measures that may be instituted by an IT Department. [8]

QUESTION FIVE

The introduction of networks particularly the Internet have seen the world becoming a global village seeing tremendous improvement on communication of information unlike the traditional methods. Discuss any four business areas that have benefited from the use of the Internet. [20]

QUESTION SIX

The existence of large databases create numerous problems with serious consequences to 'data subjects'. Data may be simply incorrect due to inadequate care taken during its collection, out of date or attached to wrong individuals. Explain any five consequences that might arise from the above circumstances. [20]

END OF QUESTION PAPER