First Year Examination of the Three Year

Degree Course, 2001

(Faculty of Science)

COMPUTER SCIENCE

Second Paper

(Introduction of Computer Programming

Using PASCAL Language)

Time - Three Hours

Maximum Marks – 50

Attempt **FIVE** questions in all,

Choosing ONE question from each Unit.

UNIT -I

1.   Write short notes on the following :-

   (i)   CPU

   (ii)   Machine instruction

   (iii)   Fetch and execution cycle in a computer.

2.   (a)   Explain various types of computers.

   (a)   Explain different computer generations.

UNIT II

3.   What are the various steps to develop a program? Explain in detail.

4.   What is the algorithm? Define the properties of algorithm? Write an algorithm to calculate the sum of digits in a given number.

UNIT III

5   (a)   What are th scalar data types in Pascal? Differentiate these with sub-range data types.

   (b)   Write down the structure of a Pascal program.

6.   Write a Pascal program to calculate 10 no's of Fibonacci series.

UNIT IV

7.   What do you understand by Top-down modular design? Explainthe advantage and disadvantage of structured programming.

8.   Explain functions and procedures. Describe recursion with an appropriate example.

UNIT V

9.   Define Set. Write a Pascal program to count the no. of vowels in a given text.

10.   What are the different types of files available in Pascal? Explain elementary operations on a file.