CODE NO : 20873

2006 CALICUT UNIVERSITY

B.TECH ELECTRICAL AND ELECTRONICS ENGINEERING

PROGRAMMING IN C

JUNE 2006

TIME::3 HOUR
MARK:100

ANSWER ALL QUESTIONS

1.(a) compare and contras computers and interpreters".

(b) discussing the steps in problem solving using a computer

(c) what are the increment and decrement operators in "c" ? what is the difference between post and preincrement.

(d) discuss all data types in "c" and the memory allocation of each.

(e) explain the syntax of "switch statement". give an example.

(f) explain the need for "continue" and break statements in c".

(g) what is the difference between Union and Structure?

(h) what is a stack? what operations are defined on stacks? [**MARKS 8*5=40]**

2.(a) (i) discus the symbols used in flow chart.draw a flow chart to check whether to given input number is prime

(ii) what are the advantage of high level and low level language.

OR

(b) (i) discus the organization of digital computer with the help of a diagram.

(ii) write an algorithm to find the average of N numbers

3.(a) (i) explain the structure of a C program with the help of a diagram.

(ii) discuss all arithematc operators in "C".

OR

(b) (i) explain the working of bit-level operators with hjelp of examp,le. what are they applied?

(ii) what will be the final value of a,b and c in the following program code:

```
int a, b;
a=5 ; b=10;
c=b++;
a=c--;
printf("%d %d ",a,b,c);
```

4.(a)(i) explain all loop control statements with an exaple each.

(ii) what is ment by recursive function.

OR

(b)(i) with the help of a program code explain what you mean by global , local, statistic and register variables.

(ii) explain the syntax of the "for" staement. give an example.

(iii) what is the goto statement used for? give an example.

5 (a) (i) declare a data structure to store 50 names of 20 characters each. using a "for" loop store 50 names into the array.(keyboard input).

(ii) discuss any four strings functions.

OR

(b)(i) what is a linear linked list? what operations are performed on it?

(ii) explain the use of single dimensioned and multidimensional arrays. [**MARKS 4*15=60]**