Enrolment No._____ Student sign:-_____

GUJARAT TECHNOLOGICAL UNIVERSITY

Mahatma Gandhi Institute of Tech. Education & Research Center, Navsari

B. E. F. Y. (SEM – II) MID SEMESTER EXAMINATION - MARCH 2009

Subject: Computer Programming and Utilization. (Code:110003)

Date: 27/03/09 Time: 90 Minutes Max. Marks: 40

MGITER

Center Code:033

Q.1 Do as directed. **[12]**

(A) What is software ? Give the different category of software.
(B) Give the basic data types of 'C' language.
(C) Differentiate Procedural Language and Object Oriented Language.
(D) Explain ternary operator in 'C'.
(E) What is an array ? What are the advantages of it?
(F) Explain variable in 'C' program.

Q.2 Do as directed. **[14]**

(A) Write a program to generate following pattern. **[08]**

```
    1
   1 2
  1 2 3
 1 2 3 4
1 2 3 4 5
```

(B) Give the difference between break and Continue with example. **[03]**
(C) Explain Operators of 'C'. **[03]**

OR

Q.2 Do as directed. **[14]**

(A) Write a program to check whether the given number is prime or not. **[08]**
(B) Give the difference between Entry control loop and Exit control loop. **[03]**
(C) Explain Switch – Case. **[03]**

Q.3 Do as directed. **[14]**

(A) Explain structure of class with example. **[04]**
(B) Write a program of C++ with class for finding average of three numbers. **[04]**
(C) Define flowchart and Draw a flowchart for finding minimum number out of three numbers. **[06]**

OR

Q.3 Do as directed. **[14]**

(A) Explain the concept of class, object, polymorphism and inheritance. **[04]**
(B) Write a C++ program which is having class name student. It has two functions named read() and print(). Assuming suitable data members and data types for them and read data elements from the user and print the same on the screen using member function. **[04]**
(C) Define Program. Write a program to generate Fibonacci series. **[06]**