F.E. (Semester – II) (Revised in 2007-08) Examination, May/June 2008
INFORMATION TECHNOLOGY

Duration : 3 Hours | Total Marks : 100

***Instruction**: Answer **five** questions with, atleast **one** question from **each** Module.*

MODULE – I

1. a) Write a note on: **8**
   i) Magnetic tape
   ii) Floppy disk.

   b) Explain some characteristics of a monitor. **8**

   c) Explain "URL". **4**

2. a) Compare the Windows, Linux and DOS Operating Systems . **8**

   b) Explain the different types of network architectures. **8**

   c) Explain the star network topology. **4**

MODULE – II

3. a) What do you mean by assembly language ? Explain its advantages and disadvantages. **8**

   b) Draw a flowchart and write an algorithm to exchange the values of 2 variables. **8**

   c) What is a flowchart ? Draw a flowchart to find if a number is prime. **4**

4. a) Explain some of the services provided by a Database Management System. **8**

   b) What is a Computer ? Explain the compilation process. **8**

   c) What are the differences between high level and low level languages ? **4**

MODULE – III

5. a) If cost price and selling price of an item is entered, write a program to determine whether the seller has made a profit or incurred loss. **6**

b) Use hierarchy of operations and evaluate the following expressions. **4**

$7/22 * (3.14 + 2) * 3/5$.

c) Trace and explain the output for the program given below. **6**

```
# include < stdio .h>
void main ( )
{
  int fun (int) ;
  int i = fun (10) ;
 printf ("%d/n", - - i);
}
  int fun (int i)
  {
     return (i + +);
  }
```

d) Explain the output of the following program: **4**

```
main ( )
{
  int i = 10 ;
  while (i = 20)
    printf ("\n Have a good day !");
  }
```

6. a) With examples, explain the use of following statements. **8**

i) Break ii) Continue.

b) With examples, explain the difference between the while and Do-while loops in C programming. **8**

c) Explain the output of the following program. 4

```
main ( ).
{
 int x = 4, y, z ;
 y = + + x;
 z = x + +;
printf ("\n%d%d%d", x, y, z);
```

MODULE – IV

7. a) Write a program to enter the total marks of a student in an array and then display it by passing the values to a function by calling the function by value. 8

b) Write a program to open a text file and enter some text in it. 6

c) Explain with an example, the situation where you would like to use an array. 6

8. a) With an example, explain the purpose of the return statement in functions. 6

b) What is a function ? Explain a function prototype with an example. 6

c) Differentiate with examples between actual arguments and formal arguments in functions. 6

d) What are the advantages of using functions in C programming ? 2
