



98224
SEM 2 – 3 (RC 07-08)

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.

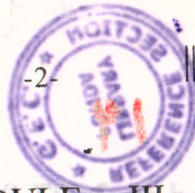
MODULE – I

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

P.T.O.



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 !");
```

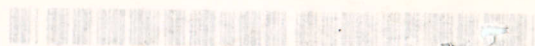
```
}
```

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

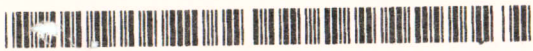


c) Explain the output of the following program.

```
main ( )
{
    int x = 4, y, z;
    y = ++x;
    z = x++;
    printf ("x=%d y=%d z=%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.
- b) Write a program to open a text file and enter some text in it.
- c) Explain with an example, the situation where you would like to use an array.
8. a) With an example, explain the purpose of the return statement in functions.
- b) What is a function? Explain a function prototype with an example.
- c) Differentiate with examples between actual arguments and formal arguments in functions.
- d) What are the advantages of using functions in C programming?



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
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