SEM 2 – 3 (RC07-08)

F.E. (Semester – II) (Revised in 2007-08) Examination, May/June 2017
INFORMATION TECHNOLOGY

Duration : 3 Hours | Total Marks : 100

Instructions : *1) Attempt **any five** questions, with **at least one** question from **each** Module.*
*2) Make suitable assumptions, if **required**.*

MODULE – I

1. a) Describe the characteristics of computer monitor. **6**

   b) Write notes on the following input devices : **6**

      i) RAM

      ii) ROM

      iii) PROM

   c) Explain network architecture. What is the difference between peer to peer and client server architecture ? **8**

2. a) Explain the working of an email with the help of a neat diagram. **6**

   b) What is the purpose of the following LINUX commands ? **4**

      i) cd

      ii) mv

      iii) pwd

      iv) ls

   c) List and explain the different functions of an operating system. **6**

   d) Briefly explain the following terms : **4**

      i) Domain name

      ii) IP address.

P.T.O.

MODULE – II

3. a) Differentiate between machine languages and assembly languages. 4

   b) Write an algorithm and draw a flowchart to check whether the given number is palindrome or not. 8

   c) List and explain with the help of a neat diagram the different steps involved in the compilation process. 8

4. a) Provide an algorithm and draw a flowchart to find sum of digits of a number. 8

   b) Differentiate between high level and low level languages. 4

   c) State and explain characteristics of data present in the database. 8

MODULE – III

5. a) Write a program to find the whether the given number is a prime number or not. A prime number is a number not divisible by any other number. 6

   b) What are the different storage classes ? Explain each one of them. 4

   c) Point out the error, if any in the program. 4

```
#include<stdio.h>
int main()
{
    int i = 1;
    switch(i)
    {
        printf("This is c program.");
        case 1:
            printf ("Case1");
            break;
        case 2 :
            printf("Case2");
            break;
    }
return (0);
}
```

   d) Write a program to compute sum of the twenty ten numbers using iterative expression statement. 6

6. a) Define assembler. What is the difference between interpreter and compiler ? 4
   b) Write an algorithm and draw a flowchart to check if the number entered is a palindrome. 8
   c) Distinguish between "while" and "do while" loop with the help of an example. 6
   d) Explain the syntax for switch statement. 2

MODULE – IV

7. a) Write code to imitate the string handling function strcpy(). 8
   b) Write a program to input and display a two dimensional matrix from the user. 6
   c) Write a program to find the largest number in the given array. 6

8. a) Write a program to accept n numbers from the user. Also write functions to print the minimum and maximum value from the inputted array. 8
   b) Write a program to rename the file from "file 1.txt" to file2.txt". 8
   c) Explain with the help of an example the difference between call by value and call by reference. 4