

F.E. Sem. – II Examination, May/June 2012
INFORMATION TECHNOLOGY
(Revised in 2007-2008)

Duration : 3 Hours

Total Marks : 100

Instructions : i) Attempt **any five** questions, with atleast **one** question from **each** Module.
ii) Make suitable assumptions, if required.

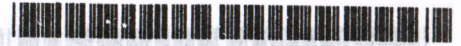
MODULE – I

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|----|--|-----------|
| 1 | a) Explain any 1 input device. | 6 |
| | b) Describe any two characteristics of monitor. | 4 |
| | c) What is the difference between RAM and ROM ? | 4 |
| | d) What is an operating system ? Briefly describe its functions. | 6 |
| 2. | a) Explain the following : | 6 |
| | i) Web browser | |
| | ii) IP address | |
| | iii) Domain name. | |
| | b) Describe star network topology with diagram. | 6 |
| | c) Write a note on dot-matrix printer. | 4 |
| | d) What is the purpose of following LINUX commands : | 4 |
| | i) touch | ii) cat |
| | iii) who | iv) chmod |

MODULE – II

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|----|---|---|
| 3. | a) What are the benefits of using Database Management System ? | 4 |
| | b) With the help of neat diagram, explain compilation process. | 8 |
| | c) Write an algorithm and draw flowchart for computing factorial of a number. | 8 |

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4. a) Differentiate between low-level and high-level languages. 6
 b) Describe the characteristics of data in database. 5
 c) What is flowchart ? What are the different elements used for constructing flowchart ? 6
 d) What is the function of assembler ? 3

MODULE – III

5. a) List and explain basic data types used in C. 7
 b) A C program contains the following declarations and initial assignments :
 int i=8, j=5;
 float x=0.005;
 Determine the value of each of the following expressions :
 i) $2*((i/5)+(4*(j-3))\%(i+j-2))$ 3
 ii) $(i>0) \ \&\& \ (j<5)$ 1
 iii) $!(x>0)$ 1
 iv) $++x$ 1
 c) Write a C program using 'for' loop to find the average of n numbers. 7
6. a) Explain the following with examples : 6
 i) printf() ii) scanf() iii) getchar()
 b) Describe the syntax of following control loops : 6
 i) for loop ii) while loop
 c) Explain 'continue' statement with an example. 4
 d) Identify errors in the following C program : 4
 i) #include<stdio.h>
 main()
 {
 float area;
 int radius !=4;
 area=3.14**radius*2;
 printf("%f", area);
 }



ii) #include<stdio.h>

main()

{

char u,r;

int w;

u=a;

v=b;

w=a+b;

printf("%d", w);

}

MODULE – IV

7. a) Illustrate the concept of C functions with an example. 6
- b) Differentiate between actual arguments and formal arguments. 4
- c) What is an array ? Write a C program to find transpose of a matrix. 7
- d) What is the purpose of following string functions : 3
 - i) strcpy()
 - ii) strlen()
 - iii) strcat()
8. a) Explain the following basic file operations supported in C : 4
 - i) opening a file in read mode.
 - ii) closing a file.
- b) What is recursion ? Illustrate with an example. 8
- c) Write a C program to read data from keyboard and write it to a file ? 8