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F.E. Semester-II (Revised Course 2007-2008)
EXAMINATION Nov/Dec 2019
Information Technology

[Duration : Three Hours] **[Total Marks : 100]**

Instructions:
1. Attempt any five questions by selecting at least one question from each module.
2. Make suitable assumptions if required.

No.		Module 1	Marks
1	a	Explain different input devices with example	6
	b	Compare the following operating system s: i) DOS ii) Windows iii) Linux	6
	c	Describe ring topology with diagram	6
	d	Distinguish between DRAM and SRAM	2
2	a	Describe the working of e-mail. Explain spamming in that context.	10
	b	Explain the client server architecture with the help of a diagram. State advantages and limitations of the same.	6
	c	What is domain name and IP address	4
		Module II	
3	a	Explain the database models.	7
	b	Describe steps involved in compilation with diagram.	7
	c	Different between assembly level languages and high level languages.	6
4	a	Describe the functions of an assembler, interpreter and compiler.	8
	b	What are the benefits of using database management system	4
	c	Write an algorithm and draw a flowchart to find functional of a number	8

Module III

5 a Describe different data types supported in C language 5

b Write a program to find smallest among three numbers using nested if-else. 6

c Write a C program to check if number entered is prime number or not. 5

d Find the output of the following codes: 4

#include<stdio.h>
 	
int main ()
 	
{
 	
int a=4, b,c;
 	
b=--a;
 	
c=a--;
 	
printf("%d %d %d\n", a, b, c);
 	
return 0;
 	
}
	#include<stdio.h>
	void main()
	{
	int a=2,b=1;
	a*=a+b;
	printf("%d\n", a);
	}

6 a Differentiate between break and continue giving an example. 4

b Write a C program to accept 'n' numbers from the user and count how many of them are divisible by 2 4

c Write a C program to design a calculator with basic operations using switch. 6

d Find the output of the following codes: 6

#include<stdio.h>
 	
void main ()
 	
{
 	
int a;
	#include<stdio.h>
	
	int main ()
	
	{
	
	int a=4,b=3, c=2, d=1;

for(a=0;a<10;a++)
 	
{
printf ("@");
 	
if(a>6)
 	
continue;
 	
printf("%d\n", a);
 	
}
 	
}
	printf("%d", a*b/c-d);
	printf("%d", a * b/(c − d));
	
	return 0;
	
	}

Module IV

7 a Explain the following with examples: **5**

i) Function declaration

ii) Function definition and function call

b Write a C program to insert element at a given position in 1D array **6**

c Write a C program to multiply two matrices **6**

d Find the output of the following: **3**

```
#include<stdio.h>
void abc( )
{
int x=4;
int y;
 y=++x*x*2;
printf("%d\n", y);
}
void main ()
{
        int x=5;
        x=++x;
        abc();
       printf("%d", x);

}
```

8	a	Write a C program to create a user defined function called square to find square of a number	5
	b	Write a C program to delete an element in a 1D array	5
	c	Differentiate between call by value and call by reference	5
	d	Illustrate reading from a file using C program	5