FE213

Total No. of Printed Pages:4

#### F. E. Semester-II (Revised Course 2007-2008) EXAMINATION MAY/JUNE 2019 Information Technology

[Duration: 3 Hours]		Total Marks: 100	
	Please check whether you have got the right question paper.		
Instruct		is from each	
	2. Make suitable assumptions if required.  Module- I		
<b>Q</b> .1	a) Describe the characteristics of monitor	07	
	b) What is Domain name and IP address?	05	
	c) Write short notes on i) Magnetic tapes ii) Floppy disk	08	
Q.2	a) Describe the working of e-mail with a diagram	10	
	b) Explain different functions of Operating system.	04	
	c) Explain the peer to peer and client server architecture	06	
	Module = II		
Q.3	a) Explain the generations of languages.	06	
5	b) Differentiate between low level and high level language.	06	
	c) What is database? Explain any 4 database models.	08	
Q.4	a) State and explain the characteristics of data present in a database.	08	
	b) What is flowchart? What are various notations used in flow chart?	04	
	c) Provide an algorithm and flow chart to find sum of digits of a number.	08	

FE213

## Module -III

Q.5	a)	What do you mean by keywords in C? Explain their uses in a program.	05
	b)	Write a program to check if alphabet entered is a vowel or a consonant using if -else.	06
	c)	Write a C program to display sum of even and odd numbers between 1 to 500.	05
	d)	Find the output of the following codes	04

#include <stdio.h></stdio.h>	#include <stdio.h></stdio.h>
int main()	int main()
1	
int a=500,b=500,c;	int x=5;
c=a/b;	int $y=x\%(x-x/2)*(x-3)+x$ ;
c;	printf("%d",y);
printf("%d %d %d",a%b,c,a/b);	return 0;
return 0;	}
}	

Q.6	a) Differentiate between while and do while loop with an example.	04
	b) Write a C program to reverse a number.	04
	c) Write a C program using switch case construct to do the following i) When user enters 0: calculate the area of a circle ii) When user enters 1: calculate the perimeter of a circle	06

FE213

d) Find the output of the following codes

06

```
#include<stdio.h>
                                     #include<stdio.h>
void main()
                                     int main()
       int a=13,b=14;
       printf("%d\n",a&b);
       printf("%d\n",a|b);
                                      int i,j;
       printf("%d",a^b);
}
                                      for(i=1;i<=2;i++)
                                            for(j=1;j<=2;j++)
                                                   if(i==j)
                                                   continue;
                                                   printf("%d
                                     %d\n",i,j);
                                            }
                                      }
                                      return 0;
```

#### Module -IV

Q.7	a) Describe the elements of a C function with the help of an example. What are the advantages of using functions?	05
	b) Explain with examples compile time and runtime initialization of 1D-Arrays	06
	c) Write a C program to add two matrices.	06

		FE213
	d) Find the output of the following	03
	<pre>#include<stdio.h> void xyz(int a) {           ++a; } void main() {           int a=500;           xyz(a);           xyz(a);           printf("%d",a);</stdio.h></pre>	
	<b>}</b>	
Q.8	a) Explain different modes of a file.	05
	b) Write a C program to search element in a 1D array.	05
	c) Write a C program to transpose a matrix.	05
	d) Illustrate reading from and writing to a file using C program	05