



SE-6013

B. E. - I (Sem - I & II) Examination
May / June - 2011
Fundamentals of Computer Programming

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दृशावेव निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. - 1 (Sem - 1 & 2)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Fundamentals of Computer Programming"/>	<input type="text"/>
Subject Code No. : <input type="text" value="6"/> <input type="text" value="0"/> <input type="text" value="1"/> <input type="text" value="3"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	<input type="text"/>
Student's Signature	

- (2) Use separate answer sheet for each section.
(3) Make assumptions whenever required.
(4) Figures on the right indicate marks.

- 1 (a) Fill in the following blanks. 5
- (i) _____ format specifier reads floating point values.
(ii) C supports how many basic looping constructs _____.
(iii) What does the last element in a character string contain _____.
(iv) The operator ! falls under the category of _____ operators.
(v) The maximum length of a variable in C is _____.
- (b) Answer the following : (any five) 10
- (i) What are the basic data types in C ?
(ii) What is the purpose of if statement ? Describe the different forms of if statement.
(iii) Which of the following are invalid variable names and why ? _ident, auto, big Number.
(iv) What is the difference between float and double variable?
(v) Explain global and local variables.
(vi) Define variable and constants.

2 (a) Give the output of the following 'C' statements : 10

(i) main()

```
{  
    int x=2, y=3, z;  
    z=x*y/4-12/12+12/3*16/y;  
    printf("z=%d",z);  
}
```

(ii) void main ()

```
{  
    int s=0;  
    while(s++<10)  
    {  
        If (s<4&& s<9)  
        continue;  
        printf("\n%d\t",s);  
    }  
}
```

(iii) main()

```
{  
    int i=012;  
    int j=034;  
    int k=056;  
    printf("i=%d\n",i);  
    printf("j=%d\n",j);  
    printf("k=%d\n",k);  
}
```

(iv) main()

```
{  
    int z=5,x=5,y=-10,a=4,b=2;  
    z=x++- --y*b/a;  
    printf("z=%d",z);  
}
```

```

(v) void myFunc(int x)
    {
        if(x>0)
            myFunc(--x);
        printf"%d",x);
    }
main( )
{
    myFunc(5);
    return 0;
}

```

- (b) Write a program and draw the flow chart to find largest from two given numbers. **10**

OR

- (b) Write a program and draw the flow chart to print the following pattern for n=4 : **10**

```

*
* *
* * *
* * * *

```

- 3** Answer the following : (any **five**) **15**

- (i) Explain the different types of memory in computer system.
- (ii) Convert the binary number $(1010011)_2$ into its equivalent decimal number system.
- (iii) Explain assembler, interpreter and compiler.
- (iv) What is a string ? Explain with example.
- (v) Convert the decimal number 100 into its equivalent binary number.
- (vi) Explain break statement with example.