



U-6013
B. E. - I (Sem. I & II) Examination
April / May - 2012
Fundamentals of Computer Programming

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

<p>नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.</p> <p>Name of the Examination : B. E. - 1 (SEM 1 & 2)</p> <p>Name of the Subject : FUNDAMENTALS OF COMPUTER PROGRAMMING</p> <p>Subject Code No. : 6 0 1 3 Section No. {1, 2,.....}: NIL</p>	<p>Seat No. : □ □ □ □ □ □</p> <p style="text-align: center;">Student's Signature</p>
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(2) Make necessary assumption whenever required.

(3) Figure to right indicate marks.

1 (a) Define the following : (any five) 10

- (i) Arrays in 'C'
- (ii) Relational Operators
- (iii) High level Language
- (iv) Operating System
- (v) Header files
- (vi) Goto statement

(b) Write a program and draw the flow chart to find out first 10 fibonacci numbers. 8

OR

(b) Write a program and draw the flow chart to find out maximum number from an array of 10 integers. 8

(c) What is the difference between while and do...while loop ? 2

2 (a) Answer the following : (any three) 9

- (i) Explain printf() and scanf() giving their syntax.
- (ii) Explain in brief the features of C language.
- (iii) What is "structure" ? How do we declare and access structure variables ?
- (iv) Explain switch....case statement.

(b) Give the output of following C statements : (any three) 6

- (i)

```
main ()
{
    int m=5;
    if (m<3) printf ("%d", m+1);
    else if(m <5) printf ("%d", m+2);
    else if (m <7) printf ("%d", m+3);
    else printf("%d",m+4);
}
```
- (ii)

```
int n=0, m=1;
do
{
    printf(m);
    m++;
}
while (m<=n);
```
- (iii)

```
void main ()
{
    int x [] = {1,2,3,4,5};
    printf ("%d", fun (&x[2]));
}
int fun (int *a)
{
    int i = 0 sum = 0;
    for (i=0;i<2;i++, a++)
    sum +=*a;
    return (sum);
}
```

```
(iv) void main ()
    {
    int x = 15, y;
    y = x++;
    printf ("%d %d", ++y, x++);
    }
```

3 Answer the following : (any **three**) **15**

- (i) Draw Block Diagram of Computer and explain it.
- (ii) Write a program to generate the following pattern.
4444
333
22
1
- (iii) Explain break and continue with example.
- (iv) Explain various operators used in C language.
- (v) Explain how string is defined in C. Write user defined functions for the following :
 - (a) strlen() : to find length of string
 - (b) strcat() : to concate two strings.
