



KC-6013

B. E. I (Sem. I & II) Examination

November / December – 2012

Fundamentals of Computer Programming

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दशांशिक निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. E. I (SEM. I & II)

Name of the Subject :
FUNDAMENTALS OF COMPUTER PROGRAMMING

Subject Code No. : 6 0 1 3 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

(2) Make necessary assumption whenever required.

(3) Figure to right indicate marks.

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

- (1) Structures in 'C'
- (2) Logical Operators
- (3) Machine Language
- (4) Operating System
- (5) Pointers
- (6) Turbo 'C' compiler

(b) Write a program and draw the flow chart to find out sum and average of first 10 integers. 8

OR

(b) Write a program and draw the flow chart to find out factorial of a given number. 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) What is recursion? Explain it with suitable example.
- (iii) Write short note on Pointer.
- (iv) Explain switch ...case statement.

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

(1) 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);  
}
```

(2) int n=0, m=1;

```
do  
{  
    printf(m);  
    m++;  
}  
while (m <= n);
```

(3) main()

```
{  
    int m [] = {1,2,3,4,5}  
    int x, y =0;  
    for(x = 0; x < 5; x++)  
        y=y+m [x];  
    printf("%d", y);  
}
```

(4) int i;

```
for(i=5;i<15;i++) {  
    printf("%d/n",i);  
    i=i -1;  
}
```

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

15

- (1) Draw Block Diagram of Computer and Explain it.
- (2) Explain System and application Software with example.
- (3) Write a program to generate the following pattern.

1

22

333

4444

55555

- (4) Why do we write functions or subroutines?
- (5) Explain break and continue with example.
