*Enrolment No.*_____

SARVODAY POLYTECHNIC INSTITUTE, LIMBDI

Diploma Sem.-II [E.C./Computer] G.T.U. Mid Term Exam, April 2009

Subject code : 320016

Subject Name : Programming In 'C'

Date – 09-04-2009 **Time – 11:00 to 12.00**

Total Marks – 20

Instructions – 1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English script of question paper shall be considered as authentic.

Q-1 (a) Explain the types of programming Language. **(4)**

(b) List types of Operator. Explain any two of them. **(4)**

Q-2 (a)Write a program to find the value of d by using equation. $d = ut + at^2$ **(3)**

(b) Write output of the following program. **(3)**

(i)
```
void main( )
{
 int x=100, y=200, max;
 max=(x > y ? x : y);
 printf ("%d", max);
}
```

(ii)
```
void main( )
{
 int  x=20, y=16;
 x = y ++;
 printf("x = %d", x);
}
```

(iii)
```
void main( )
{  int x=5 ;
  if(x%2= =0)
  printf ("x is even");
else
  printf("x is odd");
}
```

OR

Q-2 (a) Write a program to convert the temperature from farenhit to celcius.
C=(5.0/9.0)*(f-32) **(3)**

(b) Write output of the following program. **(3)**

(i)
```
void main ( )
{
 float a=9,b=12,c=3, x;
 x=a - b / ( 3+ c ) * ( b – 1) ;
 printf ( " %f ", x );
}
```

(ii)
```
void main( )
{
 int x ;
  float y ;
   x=12.2/2 ;
   y=12.2/2 ;
 printf ("x = %d",x);
  printf ("x = %d",x);
}
```

(iii)
```
void main( )
{
 int a=12 ,b=9 ;
 a + = b;
 printf ("%d",a);
}
```

Q-3 (a) Write a program to find the area of circle using symbolic constant. **(3)**
A=PIE*R*R

(b) What is Flowchart? Explain in detail with example. **(3)**

OR

(b) What is Algorithm? Explain in detail with example. **(3)**