Q. P. Code: 25132

Time : 2$\frac{1}{2}$ Hrs.   **Maximum Marks : 75**

Note :   1) All questions are compulsory.
           2) All questions carry equal marks.

**Q.1   A.   State whether the following statements are True or False :   (8)
            (Attempt any Eight).**
   1.   The third Generation of computers used integrated circuits.
   2.   The speeds of Second Generation computers were measured in milli-seconds.
   3.   Operating systems were developed in the third generation of computers.
   4.   Notepad is not a utility software
   5.   The format character %c is used to represent integers.
   6.   = and = = is the same in C language.
   7.   Break statement takes the control out of the program.
   8.   Nested if( ) means one if( ) within another if( ).
   9.   The for(x=0; x<=5; x++) will repeat 5 times
   10. ++y is called a pre-increment of the value of y

**Q.1   B.   Select the appropriate option from the following :   (7)
            (Attempt any Seven).**
   1.   _____Memory cards use less power have no moving parts.
            a) Flash   b) IC
            c) hard disk   d) DVD
   2.   Second generation computers are based on_____.
            a) Artificial Intelligence   b) transistors
            c) vacuum tubes   d) Integrated circuits
   3.   A formatted input function is _____
            a) scanf( )   b) printf( )
            c) put( )   d) getchar( )
   4.   The Diamond shape in the flowchart signifies
            a) Processing   b) Decision making
            c) Input / Output   d) Start / End
   5.   Which of these operating systems does not provide a graphical user interface
            a) Windows XP   b) Linux
            c) Android   d) Microsoft DOS
   6.   Which of these is not a programming language?
            a) C   b) C++
            c) Linux   d) JAVA
   7.   The logical operator OR is written in C as _____
            a) &&   b) ++
            c) | | d) –
   8.   Which of the following is a system software?
            a) Microsoft Word   b) Microsoft Windows XP
            c) Tally   d) Corel Draw
   9.   Using a single if( ) we can check at the most _____ alternatives
            a) 1   b) 3
            c) 2   d) 4
   10. The hexadecimal number system has a base of _____
            a) 2   b) 8
            c) 10   d) 16

Q.2   **Answer the following questions :**
     a.   Explain the different kind of secondary memory available   **(8)**
     b.   Convert the following binary numbers to decimal   **(7)**
       i) 110001   ii)1001110.01

OR

Q.2   c.   Differentiate between Analog and Digital Computers   **(8)**
       d.   Explain characteristics of a computer   **(7)**

Q.3   **Answer the following questions :**
     a.   What is E-Commerce? Why is it so popular now? Give the few E-Commerce   **(8)**
         sites name.
     b.   Write an algorithm to find the average of two numbers.   **(7)**

OR

Q.3   c.   Draw the flowchart that read two numbers and prints the larger number   **(8)**
       d.   Discuss the applications of computer in relation with social media, website,   **(7)**
         Advertising

Q.4   **Answer the following questions :**
     a.   Explain the different storage classes in C.   **(8)**
     b.   Write a program to input the cost Salvage value and estimate life in years of   **(7)**
         an asset & display the annual depreciation when
               Depreciation = (Cost – Salvage) / Life

OR

Q.4   c.   What is the output of the following C program?   **(8)**

```c
#include<stdio.h>
void main()
{char i='A';
printf("%c\n",i);
printf("%4c\n",i);
printf("%-4c\n",i);
printf("%04c\n",i); }
```

       d.   What is the output of the following C program?   **(7)**

```c
#include<stdio.h>
void main( )
{ int t=400, m=200;
  float x=125.8, y=35.76;
  printf("%8d %8d\n", t, m);
  printf("%+10.3f %10.3f\n", x, y);}
```

Q.5   **Answer the following questions :**

a.   Write a program in C to calculate and display the sum of 1+2+3+.......100   **(8)**

b.   Sales tax is calculated on the basis of sales as follows: **(7)**

Sales	Sales tax
First 5,000	2%
Next 20,000	5%
Excess	8%

Write a C program to input the bill no.(b) and Sales Amount(s) and
Display the Bill No. Sales Amount, Sales tax (t), Total Amount (ta).

OR

Q.5   c.   Write short notes on **Any Three** of the following giving suitable examples: **(15)**

         1)   The continue statement
         2)   for ( ) loop
         3)   while ( ) loop
         4)   nested if
         5)   switch( )

------X-----X-----