		Time : $2\frac{1}{2}$ Hrs.	Maximum Marks: 75	130 C
		Please check whether you have	got the right question paper.	67.5
Note:		1) All questions are compulsory.		
		2) All questions carry equal marks.		
<b>Q.1</b>	A.	State whether the following statements are True or False: (Attempt any Eight)		
	1.	The speeds of first generation computers where measured milli-seconds		
	2.	1024 Megabytes = 1 Terabyte		
	3	In the hexadecimal system there are 16 symbols.		
	4	Linux is not a programming language		
	5	Algorithm is used to state the sequence of steps that will eventually lead to the correct output.		
	6	In every C program scanf() function is mandatory.		
	7	\n is an escape sequence which moves the cursor to the next line		
	8	Nested if() means one if() within another if()		
	9	case statement is used in while ()		
	10	The for( $x=0$ ; $x<=9$ ; $x+=2$ ) will repeat 5 times.		
Q.1	В.	Select the appropriate option from the following: (7		
		(Attempt any Seven),		
	1.	memory cards use less power have no moving parts.		
		a) IC	b) DVD	
		c) Flash	d) Hard Disk	
	2.	In Analog computer the data is proce	essed in a <u>form.</u>	
		a) Continuous	b) discrete	
		c) Nano	d) Pico	
	3.	Which of these operating systems does not provide a graphical user interface?		
		a) Windows XP	b) Linux	
		c) Android	d) Microsoft DOS	
	4.5	A computer program that translates program instructions from human readable form into machine languages codes is		
6		a) Computer Language	b) Language translator	
	300	c) Utility Program	d) Spreadsheet	
	5.	A keyword must be written in		
ST 76.8	06.8	a) upper case	b) lower case	
		c) toggle case	d) mini case	
	6.	There are storage classes in C.		
	× 40	a) 4	b) 3	
	9 X	(c) 2 (c) 2	d) 6	
	7.	The format characters "%8.2f" will		
		a) 2	b) 8	
		c) 10	d) 5	
	8.	The terminal symbol in the flowchart represents :		
		a) Start of program logic	b) Processing	
	575	c) Decision	d) Display data	
7 35 02 1	U 20 3	N 1 (2) - N 1 (2) (2) (2)		

```
9.
            The logical operator OR is written in C as
                     a) &&
                                                       b) ==
                     c) ++
                                                       d) | |
            To terminate the loop and take the control out of it we use_
                     a) continue
                                                        b) break
                     c) case
                                                         d) exit
Q.2
            Answer the following questions:
            Explain the different generations of computers highlighting the improvements in
                                                                                                  (8)
       a.
            them.
            What are the binary numbers? What are the rules of binary addition?
       b.
                                                                                                   (7)
            Explain in brief about tablet computer and smartphones
                                                                                                   (8)
       c.
       d.
            Convert the following decimal numbers in to binary
                                                                                                  (7)
             i) 56.25
                         ii) 324.625
            Answer the following questions:
0.3
                                                                                                   (8)
            What are the types of systems software?
            Write an algorithm to find the largest of three numbers.
       b.
                                                                                                   (7)
                                                    OR
            Draw the flowchart to get three data values a, b and c from the user and display the
                                                                                                   (8)
       c.
            average of these three values.
            Discuss the applications of computer in relation with Risk Analysis, Management
       d.
                                                                                                   (7)
            Information System, E-Commerce.
            Answer the following questions:
Q.4
            What is an escape sequence? What is its purpose
                                                                                                   (8)
       a.
            Write a program to input the basic pay and calculate and display basic pay da,hra,
       b.
                                                                                                   (7)
            total pay and tax where da as 60% of basic pay, hra as 25% of basic pay, total as
            basic pay+da+hra and tax as 20% of the total pay.
            What is the output of the following 'C' program?
                                                                                                   (8)
            #include<stdio.h>
            void main()
            { int a=1235, b=-1888;
               float x=2233.44, y=4455.866;
               printf("%6d %6d \n", a, b);
               printf("%+8.2f %+10.1f \n", x, y); }
            What is the output of the following 'C' program?
       d.
                                                                                                   (7)
                  #include<stdio.h>
                  void main()
                  \{ \text{ int a=5, b=10, c, d; } 
                    a+=b++;
                    c=a*2+b;
                    d=++a-4;
                    printf("%d %d %d %d \n", a, b, c, d);}
```

## Q.5 Answer the following questions:

a. Write a program in C to Display the Multiplication table of Seven.

(8)

$$7 \times 1 = 7$$

 $7 \times 2 = 14$ 

•

7 X 10=70

b. Write a program in C to accepts sales from key board then calculate and print sales tax as follows:

(7)

salessales taxup to Rs 50005% of salesbetween Rs 5000 & Rs 900010% of salesover Rs 900012.5% of sales

OR

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

- 1) break statement
- 2) for () loop
- 3) do...while () loop
- 4) if ()
- 5) switch()

---X---X