computer

NOTE: 1. All Questions are compulsory.

2. All questions carry equal marks.

Marks:75 Time:2 ½ hrs

	. State whether th Attempt any seve		ements are true	or false and jus	tify your answer.
		n of computers u	ised transistors.		
2					
3		aracter for single	e character.		
4	. An operating s	ystem is part of A	Application softw	vare.	
5	. Rectangle shap	e in the flow cha	art signifies input	t.	
6	. ALU is part of r	nemory in hard o	drive.		
7	. An assembler i	s a program that	translates mner	monic code into	machine code.
8	y is post incre	ement in C progra	amming.		
9	. Second genera	tion of compute	rs used vacuum	tube.	
1	0. = and == is the	samé in C progr	amming.		
B. Fill	in the blank using	g appropriate op	tion(Attempt an	y eight)	
1	. Second genera				Spine Committee of the
	a)Artificial Inte	lligence	b)transistor	c)vacuum tube	e d)IC
2	a) Windows XP	b)Linux			
	3. Which of the fo	llowing is a syste	m software?		
	a) Microsoft word			d)Windows XP	
	a) Microsoft word	b) rany c) c	oral Draw	a) villao vis Xi	allul and to rear
Δ	. Flow lines or arr	ows in a flowcha	ert are used to co	nnect	
		s b) Two conn			d) All of these
	a, ivo terrina	5 5, 110 55111	0, , , ,		
-	. The logical opera	ator OR is writte	n in C as		
	a) &&	b) ++	c)	d)	
6	6. The data type in	t uses by	tes of memory.		
	a) 4	b)2	c)8	d)6	
7	. Unformatted fun	ction to input si	ngle character is		. 30
	a) scanf()	b)gets()	c) getchar()		d) puts()
			-10//		/ / //
			-, 8(,		REAL DOOR FLAG
8	3 .An escape seque	ence used for ho		anto 10 June 10	dely to propose
8	3 .An escape seque a) (\h)	ence used for ho b) (\v)		d) (\t)	A subject to purpose a
		b) (\v)	rizontal tab is c) (\n)	d) (\t)	native.
	a) (\h)	b) (\v)	rizontal tab is c) (\n)	d) (\t)	ar ai diody to jurgana ar
Ç	a) (\h) 9. Nested if should	b) (\v) d be used when b)3	rizontal tab is c) (\n) we have more th c)4	d) (\t) nanalter	ar ai diody to jurgana ar

Q.2 A Write note on Basic component of a computer.

B. Explain Supper computers and mainframe computers

OR

- C. Convert into decimal number system  $1)(10101)_2$   $2)(11001)_2$   $3)(1110.01)_2$
- D. Convert into binary number system 1)43 2)67.5 3)89

Q.3 A. Write note on Application software.

B. Write an algorithm and draw flowchart for following problem. the name and salary of an employee and calculate and display the name, sales, discount and net amount for the customer and commission for the salesman. Commission is 2% of sales for sales up to 15000 and 3% otherwise. Discount is 5% on sales up to 20000 and 8% otherwise.

OR

C.Write note on system software.

D. Write an algorithm and draw a flowchart that read two numbers and print the larger number.

0.4

A. Write a C program to input the amount invested(P), rate of interest(r) and the period of investment invested(n) and calculate and display the simple interest on the same. Si=Prn/100.

```
B.What is the output of the following C program?
#include <stdio.h>
void main()
{ int x=5,y=9;
    x=x++*2;
    y+=++x;
    y--;
    x-=2;
    printf("%d %d\n",x,y);
}
```

C. Write C program to accept sales amount and then display the sales amount, discount, and net amount, where discount is 5% of sales.

D. What is the output of the following C program? #include <stdio.h>

```
void main()
{ 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 A. Write a program to input telephone number and number of calls made. Calculate and display the bill amount which includes a fixed rent of 250, the first 60 calls are free and excess calls are charged @80 paise each.

B. Input two numbers and an arithmetic operator and give the result of the operation on the numbers using switch()

OR

C. Sales tax is calculated on thebsis of sales as follow.

Sales	Sales Tax
First 5000	2%
Next 20000	5%
Excess	8%

Write a C program to input the bill no.(b) and sales amount and display the bill no, sales amount, sales tax(t) and total amount(ta).

D. Write a program to input the basic pay, name and type (1-permanent,2—temporary) and calculate the DA and HRA as follows:

	Permanent	Temporary
DA	40%	25%
HRA	20%	10%

Display the total pay which includes the basic salary, DA and HRA.