ComPuter

Marks: 75 Time:2:30

Note: 1. All Questions are compulsory.
2. Each question carry 15 marks.

Q.1			
A. State whether the following statements are tru	ie or false and justify your answer		
(Attempt any eight)	Sandila diagram your answer.		
1. Microprocessors were developed and used in fo	ourth generation of computers		
2.Interpreter executes entire program codes.	satur generation of compaters.		
3. C-programs are converted to machine language	by a compiler		
4. Digital computers are used for processing data that vary continuously.			
5. Y++ is called a pre-increment of the value of y.			
6. Circle shape in the flow chart signifies input.			
7. Comparison carried out in the ALU.			
8. Algorithm must be executed in finite time.			
O le le is logical amountair	The state of the second of the		
10. For every if() it is compulsory to use else claus	Se.		
B. Fill in the blank using appropriate option. (Atte	empt any seven).		
1 is not a function of operating sys	stem.		
a) file management b) Memory management	c) Security d) Facility to type letter	rs	
2. Technology used in Third generation computers is a) Integrated circuit b) transistors c) radios d) vacuum tubes			
a) Integrated circuit b) transistors c) rac	dios d) vacuum tubes		
3. Which of following is a system software?			
a) Windows XP b) Microsoft Word	c)Corel draw d) Tally		
a) Windows XP b) Microsoft Word 4. The terminal symbol in a flowchart represents a) Decision b) Processing c) Start of processing	<u>í m. ddy dryffor L</u> imby (y fyr y f s		
- CI Statt (II III	OSTAIL TOOLS THE CHILD IS NOW ONLY		
5. Escape sequence "\n" is used for a) vertical tab b)horizontal tab c)give			
a) vertical tab b)horizontal tab c)give	e output in new line d)none of these.		
o. The follial characters %c is used for	data type		
a) char b) int c)float	d)double		
a) char b) int c)float 7. An identifier must begin with a) Alphabet b) underscore c)digit			
a) Alphabet b) underscore c)digit	d)Alphabet or underscore		
s. The unformatted function used to get string from	n monitor is		
a) getchar () b) scanf() c) printf() d) get	ts()		
9. The modulus operator(%) gives the	of the division.		
1)Quotient b)Numerator c)Denominator	d)Remainder		
0computers are used in a weather monitori)Anlog b)Digital c)Hybrid d)Nor	ng system.		
nyamog bydigitai c)Hybrid d)Nor	ne of these.		
	The second secon		

0.2

- A) Write note on generation of computer.
- B) Write note on storage devices.

OR

C)Explain decimal to binary conversion with example.

D) Convert into decimal number system.

1)11011.01

2)11010101

Q.3

- A) Write note on system software.
- B) Write an algorithm and draw a flow chart to average of three numbers.

OR

- C) Write an algorithm and draw flow chart to compute the factorial of a number N.
- D) Write note on Compiler and Interpreter.

0.4

A) Write a program to input the amount invested(p), the rate of interest(r) and the period of investment in years(n) and calculate and display the simple interest on the sum. hint:si=prn/100.

B) Write program in C program to input the name and sales and calculate and display the name, sales, discount and net amount for the customer and commission for salesman, where commission is 2% of sales for sales up to 15,000 and 3% on excess. Discount is calculated as follows

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Sales	Discount
First 10,000	5%
Next 15000	10%
Excess	15%

OR

C) What is an output of following C program? #include<stdio.h>
void main()
{int a=10, b=5,c,d;
a+=-b*3;
b*=7;
c=b%a;
d=++c+2*b;
printf("%d %d %d %d \n ",a,b, c, d);
}

```
D) What is an output of following C program?

#include<stdio.h>
void main()
{
int x=4, y=10;
x=x++;
y+=++x;
y --;
x -=2;
printf("%d %d \n ",x,y);
}
```

Q.5

- A) Write C-program to calculate and display the sum of following series 2+5+8+.....+302
- B) Input two numbers and an arithmetic operator and give the result of the operation on the two numbers.

OR

- C) Give the difference between following.(Any three)
- a) Analog and digital computer
- b) ++x and x++
- c) printf() and puts()
- d) while() loop and for() loop
- e) float and double