22131/A 310

Reg. No. | | | | | | | | |

I Semester B.C.A.2 Examination, October/November 2013
(Regular)
COMPUTER CONCEPTS AND 'C' PROGRAMMING

Time : 3 Hours Max. Marks : 80

***Instruction** : Answer the questions of **all three** Sections.*

SECTION – A

I. Answer **any ten** questions. **Each** question carries **2** marks.

1) Define John Von Neuman concept of computer.
2) Enumerate any two I/O devices.
3) What is impact printer ? Give an example.
4) Define the terms an algorithm and flowchart.
5) What do you mean by identifier ? Give example.
6) What is prefix and postfix increment ? Give an example.
7) Convert the following expression to 'C' expression

i) $z = \frac{(a+b)^2}{(a-b)^2}$ ii) $y = \frac{\sqrt{a^2+b^2}}{25}$

8) Define an Array. State its types.
9) Write the output of following program

```
main ( )
  {
   int  x = 5, y = 10, m, n;
   m = + + x;
   n = y + +;
   Printf ("% d % d % d % d", x, y, m, n);
  }
```

P.T.O.

10) What is structure ?

11) What is local and global variables ?

12) What do you mean by function ? List types of functions. **(10×2=20)**

SECTION – B

II. Answer **any six** questions. **Each** question carries **5** marks.

1) Explain briefly logical organisation of computer.

2) Draw and explain various symbols used in flowchart.

3) Write an algorithm to reverse the number.

4) Explain else-if ladder in 'C'.

5) Write a 'C' program to check whether given number is palindrome or not.

6) What is an Union ? Differentiate between Union and Structure.

7) What is a pointer ? Illustrate with an example declaration and initialization.

8) Write a 'C' program to accept three numbers and print the largest among them using function. **(6×5=30)**

SECTION – C

III. Answer **any three** questions. **Each** question carries **10** marks.

1) What is computer generation ? Explain in detail generations of computer.

2) What is string ? Explain different string handling functions with an example.

3) Explain different categories of user defined functions with suitable example for each.

4) Discuss different types of looping statements in 'C'

5) Write a program to find roots of a quadratic equations. **(3×10=30)**

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