

12137/A210

I Semester B.C.A. Degree Examination, Nov./Dec. 2011
COMPUTER CONCEPT AND C PROGRAMMING
(Repeaters)

Time : 3 Hours

Max. Marks : 80

Answer **any five full** questions :

- I. 1) Explain the basic structure of computer with neat diagram.
2) Explain the classification of printer with example for each.
3) Distinguish between high level language and machine level language. (6+6+4=16)

- II. 1) What is operating system ? List the four functions of operating system.
2) Define the term :
i) Application software ii) System software.
3) What is flow chart ? Draw a flow chart to find the area of triangle when three sides are given. (6+4+6=16)

- III. 1) Explain the problem solving concept.
2) What is data type ? List the basic data types.
3) Describe the different types of operators in C. (8+2+6=16)

- IV. 1) Explain the printf() and scanf() function with syntax and examples.
2) Write a C statement for :

i) $\frac{-b + b^2 - 4ac}{2a}$ ii) $e^x \cos \sqrt{x - y^4}$.

- 3) Write the output of the following C program :

```
main( )  
{  
    int x = 4, y, z;  
    y = -- x;  
    z = x --;  
    printf("\n%d%d%d", x, y, z);  
}
```

(8+4+4=16)

P.T.O.



- V. 1) Differentiate between entry controlled loop and exit controlled loop with example.
- 2) Write a C program to find roots of quadratic equation using switch statement. **(8+8=16)**
- VI. 1) What is array ? How do you declare array ?
- 2) Write a C program to find transpose of a matrix.
- 3) Explain else if ladder. **(4+6+6=16)**
- VII. 1) Explain string handling function.
- 2) Discuss different categories of function. **(8+8=16)**
- VIII. 1) What is structure ? Write a C program which accepts list of 5 students name, roll no. and marks in 3 subject and print the same.
- 2) What is pointer ? How do you declare a pointer variable ?
- 3) Write output of the following program :
- ```
main()
{
 float a = 13.5;
 float *b, *c;
 b = &a; /* Assume address of a = 1006 */
 c = b;
 printf (“%u%u%u”, & a, b, c);
 printf(“%f%f%f”, a, *(&a), *b);
}
```
- (8+4+4=16)**
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