

Enrollment no: \_\_\_\_\_

**GANPAT UNIVERSITY**  
**B. TECH. SEMESTER - I**  
**Regular (CBCS) Examination Dec-2014**  
**2CE101: COMPUTER PROGRAMMING**

Time: 3 Hours]

[Total Marks: 60

**Instructions:**

1. Figures to the right indicate full marks.
2. Each section should be written in a separate answer book.
3. Be precise and to the point in your answer.

**Section I**

**Q-1 Answer the following:**

- (a) Explain Basic Structure of C program. [4]
- (b) Explain goto statement with the help of program. [4]
- (c) Explain the difference between Global variables & Local variables with example. [2]

**OR**

**Q-1 Answer the following:**

- (a) Explain prefix & postfix with proper example. [4]
- (b) Discuss Precedence & associativity with proper example. [4]
- (c) List out the format specifiers (Control Strings) for primary data types. [2]

**Q-2 Answer the following:**

- (a) Explain #define Statement with help of program. [4]
- (b) Explain Ladder if-else with example. [4]
- (c) Write a program to calculate simple interest. [2]

**OR**

**Q-2 Answer the following:**

- (a) Write a program to generate following series.  $1^2+2^2+3^2+4^2+\dots+n^2$  [4]
- (b) Write a program to find whether the entered number is Armstrong or not. [4]  
(e.g.  $1^3+5^3+3^3=153$ )
- (c) Write a program to print using [2]  
(a) "15/8/1947" (b) '15/8/1947' (c) 15\8\1947 (d) 15\\8\\1947

**Q-3 Answer the following:**

- (a) Demonstrate the use of break & continue in loop using program. [6]
- (b) What will be the output of the following program? [4]

```
void main()
{
    int x=3;
    x*=x+4;
    printf("x=%d",x);}
void main()
{
    float a,b;
    int i,j;
    a=(i*sizeof(i),j*sizeof(b),i+j);
    printf("%f",a);}
```

```
void main()
{
    int i=-4,j,num=10;
    j=i%-3;
    j=(j?0:num*num);}
void main()
{
    int x=10,y=5,p,q;
    p=x>9;
    q=x>3 && y!=3;
    printf("p=%d q=%d",p,q);}
```

**[P.T.O]**

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## Section II

**Q-4 Answer the following:**

- (a) Write a program to display following pattern using nested for loop : [5]

```
A
A A
A A A
A A A A
A A A A A
```

- (b) List various character test functions and explain any four with the help of programs. [5]

OR

**Q-4 Answer the following:**

- (a) List out the category of the function. Explain any two categories with example. [5]  
(b) Describe features of C Language. [5]

**Q-5 Answer the following:**

- (a) Write a program which adds all the scanned elements and displays the result using array. [5]  
(b) Write a C program to find out the addition of two 2\*2 Matrix (2D Array). [5]

OR

**Q-5 Answer the following:**

- (a) Define Function & Explain Recursion using function. [5]  
(b) What is an Array? Explain 2-Dimensional Array with suitable program. [5]

**Q-6 Answer the following:**

- (a) Write a function oddeven() to check that the number passed as a parameter is odd or even. [5]  
(b) Write a program to find whether entered string is palindrome or not using string Functions. [5]

-----END OF PAPER-----