Date: 27/12/16. Exam No: _____

GANPAT UNIVERSITY

B.Tech. Sem-I & II (New) CBCS REGULAR & REMEDIAL

EXAMINATION– NOV-DEC 2016

2CE101 COMPUTER PROGRAMMIMG

TIME: 3 HRS TOTAL MARKS: 60

Instructions: (1) This Question paper has two sections. Attempt each section in separate answer book.
(2) Figures on right indicate marks.
(3) Be precise and to the point in answering the descriptive questions.

SECTION: I

Q.1

A. What do you mean by Compilation? Explain in detail. [4]

B. Explain the use of Typedef. [2]

C. Discuss the Comma & sizeof() operator with the help of example [2]

D. Discuss the following three terms: (1) Compiler. (2) Editor. [2]

OR

Q. 1

A. Explain in brief the features of C language. [4]

B. Define the following functions. [2]
1) gets() 2) puts() 3) getchar() 4) putchar()

C. Explain printf() and scanf() function with an example. [2]

D. Define Identifier & List out the rules to declare an identifier. [2]

Q.2

A. Explain goto statement with the help of program. [4]

B. What is the difference between '=' & '= ='. [2]

C. Explain prefix & postfix with proper example. [2]

D. What is type conversion? [2]

OR

Q.2

A. Compare for loop and while loop with illustration. [4]

B. Write a program using conditional operators to determine whether a year entered through the keyboard is a leap year or not. [2]

C. Explain: Symbolic constant with the help of example. [2]

D. Draw C tokens diagram. [2]

Q.3

A. The marks obtained by a student in 5 different subjects are input through the keyboard. The student gets a division as per the following rules: [6]

Percentage above or equal to 60 - First division
Percentage between 50 and 59 - Second division
Percentage between 40 and 49 - Third division
Percentage less than 40 - Fail
Write a program to calculate the division obtained by the student.

B. What would be the output of the following programs or Point out the errors, if any [4]

i.

```
main( )
{
int a = 200, b, c ;
if ( a >= 400 )
b = 300 ;
c = 200 ;
printf ( "\n%d %d", b, c ) ; }
```

ii.

```
main ()
{ int num[26],temp ;
num[0] = 100 ;      num[25] = 200 ;
temp = num[25] ;  num[25] = num[0] ;
num[0] = temp ;
printf ( "\n%d %d", num[0],  num[25] ) ; }
```

SECTION: II

Q.4

A. Explain Two dimensional arrays with using (addition of two 2*2 Matrix) example. [6]

B. How to pass array elements to a function. Explain with example. [4]

OR

Q.4

A. Describe recursive function in brief. [6]

B. Write a C program to print following pattern of numbers. [4]

```
#
##
###
####
#####
```

Q.5

A. Define String & discuss any two string handling built-in functions with example. [4]

B. What is NULL character? Why it's important in character array? [2]

C. Answer the Following. [2]

1. "A" is a _____ while 'A' is a_____.
2. What does unary, binary and ternary operator means?

D. What is the minimum index in an array? Why do you need to use arrays? [2]

OR

Q.5

A. What is function? Explain any two Library Functions with syntax & example. [6]

B. Write a C program to find out the length of string without using strlen (). [4]

Q.6

A. Write a function oddeven() to check that the number passed as a parameter is odd or even. [6]

B. Write a program to find whether entered string is palindrome or not. [4]

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