

Date: 29/05/2017

New

Student Exam No. _____

GANPAT UNIVERSITY

**B. TECH SEMESTER: I & II CBCS (NEW) (ALL BRANCH)
REGULAR / REMEDIAL EXAMINATION APRIL - JUNE 2017
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.
4. Assume suitable data if required.

SECTION-I

- Que-1** [A] Explain basic structure of c program in details. [4]
[B] Explain C token in details. [3]
[C] What is the difference between #define and constant keyword? Explain #define using suitable example. [3]

OR

- Que-1** [A] Draw and explain flow chart of execution of a c program. [4]
[B] Write a c program to generate Fibonacci series. [3]
[C] Discuss the rules of identifiers. [3]
- Que-2** [A] Write a c program using switch statement that takes input from user, if user enters character 'S' then output is "Summer", if user enters 'M' then output is "Monsoon", if user enters 'W' then output is "Winter", and if user enters any other character then output should be "ENTER VALID CHARACTER". [3]
[B] Explain goto statement with a suitable example. [3]
[C] Discuss else..if ladder statement in details. [3]
[D] What is the use of #include<stdio.h> statement in c program. [1]

OR

- Que-2** [A] Write a C program to display the number in reverse order (ex. 456 → 654) [3]
[B] What is type conversion? Discuss type conversion in details. [3]
[C] Write a C program to check the given number is Prime or not. [3]
[D] What is the difference between continue and break statements. [1]

- Que-3 [A] List the operators and explain any three using proper example. [3]
 [B] Write a C program to print factorial of a given number. [3]
 [C] Write the output of following programs with justification. [4]
- (a) `void main()`
`{`
`int p;`
`clrscr();`
`for(i=0;i<87;i++);`
`if(i==87)`
`{`
`printf(" HELLO WORLD");`
`}`
`else`
`{`
`printf(" WEL COME");`
`}}`

(b) `void main()`
`{`
`int x=3,y,z;`
`z=y=x;`
`z*=y=x*x;`
`printf("x=%d y=%d z=%d",x,y,z);`
`}`

SECTION-II

- Que-4 [A] What do you mean by user defined function? List out the categories of user defined function and explain any two in details. [5]
 [B] Differentiate entry controlled loop and exit controlled loop. [3]
 [C] Write a C program to convert string from uppercase to lowercase. [2]

OR

- Que-4 [A] What is an array? Explain initialization of 1-dimensional and 2-dimensional array. [5]
 [B] Write a C program to perform concatenation of two strings without using `strcat()`. [3]
 [C] Write a C program that compares only left most five characters of two strings. [2]
- Que-5 [A] Explain following string handling functions in details: [6]
 (1) `strncpy()` (2) `strstr()` (3) `strncat()`
 [B] Write a function `oddeven()` that checks the number pass as parameter is odd or even. [4]

OR

- Que-5 [A] How to read strings from terminal and write strings to terminal. [4]
 [B] Write a C program to sort an integer 1-Dimensional array into ascending order. [4]
 [C] How to initialize and declare string variables. [2]
- Que-6 [A] Write a C program to perform addition of two 3×3 matrix. [5]
 [B] Briefly explain any two elements of user define function. [5]

END OF PAPER