GANPAT UNIVERSITY

B. TECH SEM-I & II All Branch   **REGULAR & REMEDIAL**
EXAMINATION-APRIL-JUNE 2016
2CE101:COMPUTER PROGRAMMING

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]	Explain typedef keyword with suitable example.	(2)
	[B]	What is program? Explain three classes of data types.	(3)
	[C]	Describe the basic structure of C program.	(5)

OR

Q. 1	[A]	Explain process of compiling and linking of a C program.	(5)
	[B]	Explain C Token with example.	(5)

Q.2	[A]	Define: Operator. List out all operators and discuss any three of them with program.	(6)
	[B]	Explain forward and backward jump in GOTO with suitable example.	(4)

OR

Q.2	[A]	Why do we need type casting? Discuss the types of type conversion with its syntax and example.	(5)
	[B]	Draw the flow chart of ELSE…IF LADDER and explain it with suitable example.	(5)

Q.3	[A]	Write a C program to find whether the given number is armstrong or not.	(4)
	[B]	Define following terms with syntax. (Any Five)	(6)

(i)	gets()	(ii)	#define
(iii)	const	(iv)	#include
(v)	continue	(vi)	break

Q.4 **[A]** Write a C program to read the age of 100 persons and count the number of persons in the age group 50 and 60. Use for and continue statements.

[B] Explain any DO...WHILE loop with suitable example. (5)

OR

Q.4 **[A]** Define Array. How to declare and initialize multi-dimensional array? (2)

[B] Write a C program to print following pattern of numbers using nested for loop. (4)

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

[C] Write a C program which read two matrices of n*m, multiplies them and displays the resultant matrix. (4)

Q.5 **[A]** List out categories of function. Differentiate any two of them. (3)

[B] Explain how to read string from a terminal and write a string with suitable example. (3)

[C] Write a C program to generate Fibonacci series using used defined function. (4)

OR

Q.5 **[A]** Write a C program to reverse a string without using any string built-in function. (5)

[B] Explain an elements of user defined function with its syntax and example. (5)

Q.6 **[A]** Write a C program to swap two variables a and b without using any additional variable. (3)

[B] Justify following statements: (3)
  (i) A user defined function may be placed either after or before the main function.
  (ii) To join two strings built-in function is strcat().
  (iii) Identify error: float average[row],[column];

[C] Compare following terms: (4)
  (i) for loop and while loop
  (ii) puts() and putchar()

---END OF PAPER---