

**GANPAT UNIVERSITY**  
**B. Tech. Semester: II (ME/MC/CL/EE)**  
**REGULAR EXAMINATION- APRIL-JUNE-2015**  
**2CE101- COMPUTER PROGRAMMING**

Total Marks: 60

Time: 3 Hours

- Instruction:**
1. Attempt all questions.
  2. Figure to the right hand indicates full marks.
  3. Each section should be written in a separate answer book.
  4. Make suitable assumption wherever necessary.

**Section - I**

- Que. - 1** A Answer the following questions. (6)
1. Define variable.
  2. Define an array of 2x2 float matrix.
  3. Give a prototype of function accepting two float values as arguments/parameters and returns float value.
  4. How can you define infinite loop using **for**?
  5. List advantages & limitation of computer.
  6. Give output of following code:  

```
printf("%d\n", 4 ? 2 : 8);
```

 A) 4 B) 2 C) 8 D) program has a compiler error
- B Explain basic structure of C language with diagram & example. (4)

OR

- Que. - 1** A Write algorithm, flowchart and C program to print scanned number is even or odd. (6)
- B Difference between compiler & interpreter. (4)

- Que. - 2** A List the various data types used in C with its size and format specifier. (6)
- B Explain bitwise exclusive OR ( ^ ) and bitwise left shift ( << ) operators with example. (4)

OR

- Que. - 2** A Explain nested if else with example. (6)
- B Explain logical AND ( && ) and logical OR ( || ) operators with proper example. (4)
- Que. - 3** A Explain Switch statement with flowchart, syntax and example. (6)
- B Explain prefix & postfix method with example. (4)

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## Section - II

Que. - 4 A Explain use of break and continue in loops with example. (6)

B Write program which scan an integer number and then finds the sum of all the digits of the entered number. (4)

OR

Que. - 4 A Explain arithmetic, relational and assignment operators used in C with example. (6)

B Write a program which scan a character and then finds whether it is uppercase, lowercase or a digit without using any character test function. (4)

Que. - 5 A Write a C program to subtraction of two 3 X 3 Matrix. Read Two matrices from the user, store subtraction in third matrix & display it. (6)

B Explain category of functions with syntax. (4)

OR

Que. - 5 A Write a function multiply( ) which receives a float and an integer from main( ), finds the product of these two and returns the product. Print this product through main( ). (6)

B Explain type casting with example. (4)

Que. - 6 A Attempt following questions. (6)

1. Write the output of following program with explanation.

```
#include<stdio.h>
void main()
{
    int x,y,z;
    x=y=z= -1;
    z=++x && ++y || ++z;
    printf("x=%d y=%d z=%d",x,y,z);
}
```

2. Describe strlen( ) string function with program.

B Write a program to make following triangle. (4)

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

---END OF PAPER---