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**3 SEM TDC GECA (CBCS) GE 3**

**2023**

( Nov/Dec )

**COMPUTER APPLICATION**

( Generic Elective )

Paper : GE-3

( Introduction to Programming )

*Full Marks : 53*

*Pass Marks : 21*

*Time : 3 hours*

*The figures in the margin indicate full marks  
for the questions*

1. Answer the following as directed : 1×6=6

(a) What is the difference between variable and constant?

(b) What is unary operator?

(c) A string is an array of \_\_\_\_\_.

( Fill in the blank )

( 2 )

( 3 )

(d) What is header file?

(e) Define class.

(f) Declare a two-dimensional array in C.

2. Answer the following questions :  $2 \times 6 = 12$

(a) Distinguish between while loop and do-while loop.

(b) Write any four types of operators used in C++ program.

(c) What are looping statements? Write the syntax of 'for' loop.

(d) What is a structure? How is a structure different from an array?

(e) Write any two features of OOP's programming.

(f) Write the difference between constructor and copy constructor.

3. Answer any five from the following questions :  $7 \times 5 = 35$

(a) Write a C program to generate all the numbers divisible by 3 between 1 to 50.

(b) Write a C++ program to find the largest among three given numbers.

(c) Write a C program to calculate simple interest.

(d) Write a C++ program to reverse a string.

(e) Write a C program to find the sum of odd integers between 1 to 100.

(f) Explain briefly about multilevel inheritance with example.

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