

2017

COMPUTER SCIENCE

(Programming Fundamentals Using C/C++)

[**Honours**]

(CBCS)

[**First Semester**]

PAPER –C1T

Full Marks : 40

Time : 2 hours

Answer **all** questions

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their
own words as far as practicable*

Illustrate the answers wherever necessary

GROUP – A

(*C Programming*)

1. Answer any *two* questions : 2 × 2
- (a) What is variable ? Give an example.

- (b) What is difference between 'V' and "V" ?
- (c) What is a keyword ? Give an example.
- (d) What is an array ?

2. Answer any *two* questions : 5 × 2

- (a) Discuss about the scope of a variable using an example. 5
- (b) Explain different types of loops used in C. 5
- (c) How break and continue statements are used in loops ? Give an example of each. 3 + 2

GROUP-B

(C++ Programming)

3. Answer any *three* questions : 2 × 3

- (a) What is friend function ?
- (b) What is multilevel inheritance ? Give example.

- (c) What is Polymorphism ?
- (d) Why exception handling is necessary ?
- (e) What is pure Virtual function ?

4. Answer any *two* questions : 5 × 2

- (a) What is operator overloading. Explain with proper example. Why operator overloading is needed ?
- (b) What is the difference between static and dynamic memory allocation in C++ ? Explain.
- (c) Write a C++ program to show multilevel inheritance.

GROUP-C

5. Answer any *one* question : 10 × 1

- (a) (i) Declare and initialize an array of integers in C. 2

- (ii) Declare a function in C that has two int parameters and returns an int. 2
- (iii) What is comment line argument in C? 3
- (iv) Explain if-else construct in C. 3
- (b) (i) What is a class and object in C++? 3
- (ii) Explain the properties of an object oriented programming language. 3
- (iii) Explain function overloading briefly with an example. 4
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