

2018

CBCS

3rd Semester

COMPUTER SCIENCE

PAPER—GE3T

(Honours)

Full Marks : 40

Time : 2 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Instrumentation

1. Answer any *five* questions : 5×2
- (a) What are the differences between global variable and local variables ?

(Turn Over)

- (b) When is a switch statement better than multiple if statements ?
- (c) How can we achieve run time polymorphism in C++ ?
- (d) How the overriding is different than overloading ?
- (e) Give uses of scope resolution operator (::) in C++.
- (f) List operators which can't be overloaded in C++.
- (g) Define macro.
- (h) What is the purpose of break statement ?

2. Answer any *four* questions : 4×5

- (a) What are the differences between static binding and late binding ? Explain with example.
- (b) What are different forms of inheritances supported by C++ ? Discuss with examples.
- (c) Explain the concept of array of pointers with example.

- (d) Write a program to take four integer values as input and print their average.
- (e) Explain the meaning of following statements with reference to pointers :

```
int    *ptr, m = 8 ;
      *ptr = m ;
      ptr = &m ;
```

- (f) Explain the use of pointers in call by reference parameter passing for functions.

3. Answer any *one* question : 1×10

- (a) (i) Write a program to demonstrate Command Line Argument.
- (ii) What are the differences between structures and Unions? Discuss with example. 5+5

(b) Write short notes (any *two*) :

- (i) Data Abstraction ;
- (ii) Inline function ;

(iii) Constructor and Destructor ;

(iv) Class and Object ;

(v) Type conversion.

2×5