

TKN/KS/16/6002

**Bachelor of Science (B.Sc.) I.T. Semester—II (C.B.S.)
Examination**

**OBJECT ORIENTED PROGRAMMING USING “C++”
Paper—II**

Time : Three Hours]

[Maximum Marks : 50

- N.B. :—** (1) **ALL** questions are compulsory and carry equal marks.
- (2) Draw neat and labelled diagram wherever necessary.

EITHER

1. (a) What is a class ? Explain with example. 5
- (b) Explain static data members with example. 5

OR

- (c) Explain the following :
- (1) Private
 - (2) Protected. 5
- (d) What is inline function ? Discuss in detail. 5

EITHER

2. (a) What is copy constructor ? Explain with example. 5

(b) Explain the rules for operator overloading. 5

OR

(c) What is destructor ? Explain with example. 5

(d) How does a parameterized constructor work ?
Explain. 5

EITHER

3. (a) What is abstract class ? Explain with example. 5

(b) What is inheritance ? Explain multiple inheritance in
detail. 5

OR

(c) How would you create dynamic object ? Explain.
5

(d) Explain destructor in derived class. 5

EITHER

4. (a) Why do we need a virtual function ? Explain. 5

(b) How would you handle exception in C++ ? 5

OR

(c) Explain Fault Tolerant Design techniques. 5

(d) How will you handle an uncaught exception ? 5

5. Attempt any **TEN** :

(a) List features of OOPs.

(b) Explain public member.

(c) What is object ?

(d) What is unary operator ?

(e) What is operator overloading ?

(f) Explain constructor overloading.

(g) Explain hybrid inheritance.

(h) Explain delete operator.

(i) Explain pointer to object.

(j) What is exception ?

(k) What is pure virtual function ?

(l) Explain memory allocation failure. 10×1=10