

**Code : 303301**

**B.C.A. 3rd Semester Theory Examination, 2017**

**Object Oriented Programming using C++**

**Time : 3 Hrs**

**Full Marks : 60**

**Instructions :**

- (i) The questions are of equal value.
- (ii) There are Seven questions in this Paper.
- (iii) Attempt Five questions in all.
- (iv) Question Nos. 1 & 2 are compulsory.

**Answer any six Questions:**

**2×6=12**

- (a) Give the evolution diagram of OOPS concept.
- (b) Write any four features of OOPS.
- (c) What is constructor?
- (d) What is an inline Function?
- (e) What are the blocks used in the Exception Handling?
- (f) Write the syntax of function template.
- (g) What is meant by inheritance?
- (h) What are pure virtual functions?
- (i) What are streams?
- (j) What are the functions that the file stream class provides?

**Answer any three of the following:**

**4×3=12**

- 1) What is a scope resolution operator? Give example.

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- (b) Briefly explain copy constructor.
- (c) Discuss the need for exception with try, catch and throw keywords.
- (d) What is polymorphism? Briefly explain the different types of polymorphism.
- (e) What are the types of File access? Write an example program for sequential access.

**Answer any three questions:**

**12×3**

3. Explain object-oriented paradigm with all its essential elements.
4. What is operator overloading? How many arguments are required in the definition of an overloaded binary operator?
5. What is class template? Write the syntax for class template. Write an example program for class template.
6. Explain abstract class with suitable C++ coding.
7. What is meant by inheritance? Explain its types with suitable example.

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