

**BACHELOR OF COMPUTER APPLICATIONS
(BCA) (Pre-Revised)****Term-End Examination**

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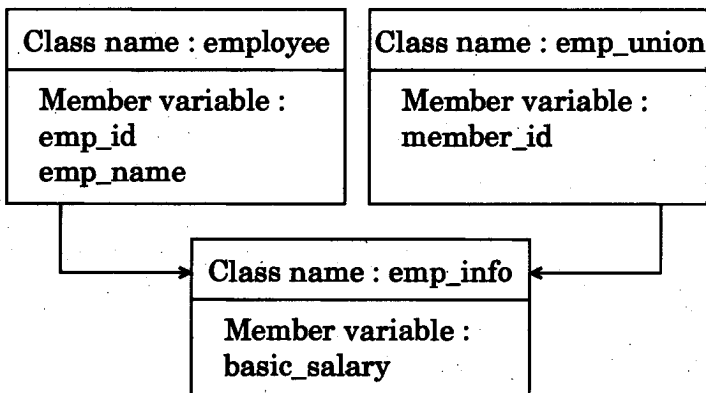
December, 2018

**CS-72 : C++ AND OBJECT ORIENTED
PROGRAMMING***Time : 2 hours**Maximum Marks : 60*

Note : Question number 1 is compulsory. Attempt any three questions from the rest. All program codes must be in C++ programming language only.

1. (a) Write a program to implement the inheritance as shown in the figure given below. Write member functions to accept and display data.

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- (b) Explain open() and close() functions of file handling with the help of an example. 5
 - (c) Compare operator overloading and function overloading with the help of examples. 5
 - (d) What are Virtual Functions ? Why are they needed ? What are Pure Virtual Functions ? 6
 - (e) Explain Class and Object with the help of examples. 4
2. (a) Write a program to interchange two integer values by using call by reference. 5
- (b) Explain overloading of constructors with suitable example. 5
3. (a) What is UML and why is it used ? 3
- (b) Design a Use-Case diagram for placing an order online at an e-commerce website. 7
4. (a) What is the difference between Static binding and Run-time binding ? 5
- (b) Differentiate between prefix and postfix operators with the help of an example for each. 5

5. Explain the following :

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- (a) **'this' pointer**
 - (b) **friend functions**
 - (c) **new and delete operators**
 - (d) **iostream.h file**
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