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**Paper Code :DCS-207
Roll No.**

**BCA-15
2nd Year Examination, Academic Batch 2016-17
Object Oriented Programming & C++**

Time : 3 Hours]

[Max. Marks : 100

*Note. Attempt any **five** questions. All questions carry equal marks.*

Q.1.a) What do you mean by a variable? Also explain the rules for declaring a variable.

b) What is the difference between an integer variable and a floating point variable.

Q.2.Distinguish between

(a)Object and class

(b) Data abstraction and data encapsulation.

Q.3. (a) What is the difference between #define debug 0 & #undef debug?

(b) What do you mean by the Virtual Function?

Q.4.(a) Explain the term in-line function? Also give example to illustrate the use of in-line Function

(b) What do you mean by a function? Differentiate between user defined and library function.

5. Explain in detail the basic concept of both Procedure Oriented Programming & Object Oriented Programming.

6. What do you mean by Preprocessor? Explain in detail File Inclusion, Macro Replacement and Conditional Compilation cases handled by the preprocessor.

7. What do you mean by Call-By-Value and Call-By-Reference? Write program in C++ for both to demonstrate their uses.

8. Explain the different file opening modes.