Roll No. Total No. of Pages: 02

Total No. of Questions: 07

BCA (2013 & Onward)/B.Sc. (IT) (2015 & Onward) (Sem.-2)

OOPS USING C++

Subject Code: BSBC/BSIT-203 Paper ID: [B1115]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and a student has to attempt any FOUR questions.

SECTION-A

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Q1 Answer briefly:

- a) List various features of object oriented programming language.
- b) What is early and late binding?
- c) Define structure and union.
- d) What is object and class?
- e) What are various characteristics of a pointer variable?
- f) What is static member function?
- g) Write a C++ program to swap two numbers without using third variable.
- h) Differentiate union and class.
- i) Define binary operator overloading.
- j) What is pure virtual function?

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SECTION-B

- Q2 What is data hiding and encapsulation? How it is implemented using C++? Explain with example.
- Q3 Define Constructor. What are its different types? Explain with suitable example.
- Q4 What is function and operator overloading? Write and explain a C++ program to demonstrate the concept of unary operator overloading.
- Q5 Discuss the role of streams, buffers and files by taking suitable example in C++.
- Q6 Write notes on the following:
 - a) Array of structure
 - b) Need and types of inheritance
- Q7 What are friend and inline functions? Explain with example.

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