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Total No. of Pages: 02
Total No. of Questions: 07**B.Sc.(IT). (Sem.-3rd)**
PROGRAMMING in C++
Subject Code: BS-205
Paper ID: [B0411]**Time: 3 Hrs.****Max. Marks: 60****INSTRUCTIONS TO CANDIDATE:**

1. Section –A, is Compulsory.
2. Attempt any four questions from Section-B.

Section –A**(10x2=20)**

Q.1. Discuss the following:

- (a) What is the use of void data type in C++?
- (b) What do you mean by cin and cout?
- (c) What do you mean by Access Specifiers?
- (d) Is it necessary to create an object of a class?
- (e) Discuss the rules to declare a constructor in a class.
- (f) Discuss the use of new and delete operator.
- (g) What do you mean by Early binding and dynamic binding.
- (h) What do you mean by command-line arguments?
- (i) Discuss Eof () and Bad ().
- (j) What is data hiding?

Section –B**(4x10=40)**

- Q.2. (a) What are the two major parts of a class? 4
- (b) Define scope resolution operator. How it is useful for defining a member of a class. 6
- Q.3. (a) Differentiate between procedure oriented programming and object oriented programming. 5
- (b) Explain the concept of function overloading. What are its different rules to follow for the term of function overloading? 5

- Q.4. What is a copy constructor? When it is called. Why the argument to a copy constructor is passed by reference. 10
- Q.5. (a) What is multilevel inheritance? How it can be differentiated from multiple inheritance. 6
(b) Explain array of objects with suitable examples. 4
- Q.6. (a) Define Prototype-based programming. 4
(b) What are the main characteristics of object oriented paradigm. 5
- Q.7. (a) What is a file mode? Describe the various modes for opening a file. 5
(b) Write short note on: seekg(), seekp(), tellg(), tellp().

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