Q.P. Code: 00000664

[Time:2.30 Hrs]	**[Marks:75]**

Please check whether you have got the right question paper.

N.B:
1. **All question are compulsory.**
2. **Figures to the right indicate full marks.**
3. **Students answering in the regional language should refer in case of doubt to the main text of the paper in English.**

Q.1		Attempt **any three** of the following: a. Sketch out the concept of Programming Languages. b. Why we need Object Oriented Programming(OOP). c. Differentiate Procedure Oriented Programming and Object Oriented Programming. d. List and explain Benefits and Applications of Oops. e. Outline Basic concepts of OOPs. f. Explain Object Oriented Programming Paradigm.	15
Q.2		Attempt **any three** of the following: a. How to define a Member function. b. Illustrate Friend classes with Example. c. Recall Array of Pointer to Object. d. Summarize Default Constructor with Example. e. Enumerate Parameterized Constructor with suitable Example. f. Write a note on Destructors.	15
Q.3		Attempt **any three** of the following: a. Explain the concept of Function Overloading.	15

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		b. Discuss in detail of Overloading Arithmetic Assignment Operator. c. Describe data conversion between Objects and Basic types. d. Outline overview of Pure Virtual functions. e. Analyze this pointer. f. Evaluate Abstract classes.	
Q.4		Attempt **any three** of the following: a. Demonstrate Single Inheritance with Example. b. Construct a diagram for Multiple Inheritance with suitable examples. c. Memorize Constructors in derived classes. d. Justify Exception handling mechanisms. e. What is the Exception specification? When is it used? f. Point out Rethrowing an Exception.	15
Q.5		Attempt **any three** of the following: a. Recall Templates for a simple function. b. Discuss Overloading of Template functions with an Example. c. What are Class Templates? Explain with an Example. d. Sketch out different File Operations. e. Summarize the Stream classes. f. Evaluate File Pointer and their manipulation.	15