

Exam Date & Time: 30-Sep-2020 (02:00 PM - 05:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image : 30mins+ Grace Time : 15mins

MSc DEGREE EXAMINATION MAY 2020
(Fourth Semester)

Branch - MATHEMATICS

CORE ELECTIVE - II PROGRAMMING IN C++ (THEORY) [14MAP17]

Marks: 75

Duration: 225 mins.

ALL questions carry EQUAL marks

Answer all the questions.

- 1) a Expound on object oriented programming paradigm.
b List out the arithmetic operators and keywords available in C++. Demonstrate it with the help of simple program.
OR (15)
c what are the various applications of OOP.
d Demonstrate the usage of basic data types and user defined data types.
- 2) a Give the usage of Scope Resolution Operator.
b Elaborate about the concepts of functions.
OR (15)
c What do you mean by Control Structures? How it is used in C++ programming? Write a simple code to find the biggest of 4 numbers.
- 3) a How will you create a class?
b What do you mean by inline function and how it can be included in a class definition?
OR (15)
c Define an object. How the methods of a class are accessed?
d Demonstrate the use of away of objects.
- 4) a What are Constructors? What are the types of constructors available in C++? Discuss about types of constructors.
OR (15)
b Discuss on (i) Function Overloading (ii) Operator Overloading.

5) (15)

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- a Write a detailed note on
- (i) Derived classes and access parameters of member data
 - (ii) Single Inheritance
 - (iii) Multiple Inheritance.

OR

- b Elucidate on
- (i) Virtual functions
 - (ii) Multilevel inheritance
 - (iii) Hybrid inheritance.

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