GOVERNMENT POLYTECNIC PUNE 411061

(An Autonomous Institute of Govt. of Maharashtra)

TERM EXAM ODD2019

Enroll. No:1807020

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Programme: Diploma in Information Technology

Course Name: Object Oriented Programming: C++ Time Allowed: 3 Hrs.

Course Code:CM388 Max Marks: 80

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Q.1 Attempt any FOUR of the following. 16M

Q1) Write down syntax of while loop and do while loop.

Q2) Explain function prototyping using examples.

Q3) Explain nesting of member functions.

Q4) justify data hiding and accomplished by class.

Q.2 Attempt any FOUR of the following. 16M

Q1) Describe the mechanism of making and outside function inline.

Q2) Explain how static member functions are shared using exaples.

Q3) What are the Comments in C++?

Q4) When there is a Global variable and Local variable with the same name, how will you access the global variable?

Q.3 Attempt any TWO of the following. 12M

Q1) How do you define/declare constants in C++?

Q2) What are the various Arithmetic Operators in C++?

Q3) What are the Extraction and Insertion operators in C++? Explain with examples.

Q4) Difference between Class and Structure.

Q.4 Attempt any FOUR of the following. 16M

Q1) What is a Constructor and how is it called?

Q2) What is the role of Static keyword for a class member variable?

Q3) What is the difference between a Copy Constructor and an Overloaded Assignment Operator?

Q4) What is Inheritance?

Q.5 Attempt any TWO of the following. 12M

Q1) What are Multiple Inheritances (virtual inheritance)? What are its advantages and disadvantages?

Q2) Give an example of Run-time Polymorphism/Virtual Functions.

Q3) What is a friend class?

Q4) Explain Pass by value and Pass by reference.

Q.6 Attempt any THREE of the following 12M

Q1) Why are arrays usually processed with for loop?

Q2) What is a Reference Variable in C++?

Q3) Enlist benefits of oop.

Q4) Explain message pasing features in oop using examples.