

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA., Summer 2017-18 Examination

Semester: 02**Date: 19-05-2018****Subject Code: 05201152****Time: 10:30AM to 01:00PM****Subject Name: Object Oriented Concepts and Programming****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Do as directed. (4x2) (Each of 04 marks) (08)**
- (a) Explain different types of Access Specifier in detail
 - (b) What is Inheritance? List out different types of Inheritance. Explain any two inheritance in detail.
- Q.1. B) Answer the following questions (Any two) (04)**
- (a) Do as directed. (2x2) (Each of 02 marks) (04)
 1. How to write comments in C++?
 2. Explain class & object.
 - (b) Write down difference between Procedure Oriented Programming & Object Oriented Programming. (04)
 - (c) Write a short note on Function Overloading. (04)
- Q.2. A) Answer the following questions. (04)**
- (a) List out various types of operators and explain in detail. (04)
 - (b) Explain call by value & call by reference. (04)
- Q.2. B) Answer the following questions (Any two) (03)**
- (a) Do as directed. (03)
 1. What is Function? Write down syntax for creating a function. (02)
 2. What is Encapsulation? (01)
 - (b) Explain Virtual Function in detail. (03)
 - (c) Explain conditional statements in detail. (03)
- Q.3. A) Do as directed. (4x2) (Each of 04 marks) (08)**
- (a) What is constructor? Explain parameterized constructor.
 - (b) Write a short note on Exception Handling.
- Q.3. B) Answer the following questions (Any two) (04)**
- (a) Do as directed. (Each of 01 marks) (04)
 1. Which header file is use for the input and output in C++?
 2. Destructor never takes arguments. [True / False].
 3. What is exception?
 4. Constructor name is the same as _____.
 - (b) What is friend function? Explain with example. (04)
 - (c) Explain various IO modes in detail. (04)
- Q.4. A) Answer the following questions. (04)**
- (a) Do as directed (Each of 02 marks) (04)
 1. What is polymorphism? List out different types of polymorphism.
 2. Explain templates.
 - (c) Explain Loops with example. (04)
- Q.4. B) Answer the following questions (Any two) (03)**
- (a) Do as directed. (Each of 01 marks) (03)
 1. A constructor is executed automatically when an object is_____.
 2. What is default constructor?
 3. What is stream?
 - (b) Explain Virtual Base Class. (03)
 - (c) Write a short note on name space. (03)