

# P-202

## P.G.D.C.A. II Semester Examination 2020

Paper : PGDCA-202

Object Oriented Programming

Max.Marks : 100

Min.Marks: 40

**Note:** Attempt five questions in all, selecting any one from each Unit.

### Unit - I

- 1.(a) Explain the concept of Object Oriented programming language. Also differentiate between object and class.: 15
- (b) What is Structure? Explain briefly. 5

**OR**

- 2.(a) What do you mean by static data member and static member function? Explain with suitable example.? 15
- (b) What is friend function? Explain. 5

### Unit - II

- 3.(a) Explain different types of constructors with syntax and example. 15
- (b) What is destructor? Explain. 5

**OR**

- 4.(a) What is memory allocation? How can you allocate memory to array and object? Explain briefly. 15
- (b) What do you mean by reference parameter? Explain. 5

### Unit - III

- 5.(a) What is operator overloading? Write a program to overload comma operator. 15
- (b) What is 'delete' operator? Explain. 5

**OR**

Contd...

(2)

- 6.(a)** What do you understand by function overloading? Explain with suitable example. 15
- (b)** What is 'new' operator? Explain. 5

### **Unit - IV**

- 7.(a)** What do you mean by the term inheritance? Explain different types of Inheritance. 15
- (b)** Explain virtual function with example. 5

**OR**

- 8.(a)** Differentiate between multilevel and multiple inheritance with example. 15
- (b)** Define base and derived class. 5

### **Unit - V**

- 9.(a)** What is I/O formatting? Explain different basic stream classes. 15
- (b)** How can you create own manipulator? Explain. 5

**OR**

- 10.(a)** Explain all formatted I/O functions with suitable example. 15
- (b)** What is manipulators in c++ ? 5

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