Total No. of printed pages = 7

RETEST EXAMINATION, 2019

Semester: 5th (Old)

Subject Code: CO 506

OBJECT ORIENTED METHODOLOGY

Full Marks -70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Instructions:

- 1. Questions on PART-A are compulsory.
- 2. Answer any five questions from PART-B.

PART – A Marks – 25

1. 1	Fill in the blanks:	1×10=10
()	(a) C++ language is case	V(10) (5) c
((b) The smallest individual unit in known as	n a program is

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- (c) Message passing involves specifying the name of the object.
- (d) It is not possible to achieve inheritance of structures in C++.
- (e) Super classes are also called parent classes/ base classes.
- (f) A class can serve as base class for many derived classes.
- (g) The declaration

int x;

int &p=x;

is same as the declaration

int x,*p;

p=&x;

This remark is

- (h) Operator overloading is a mechanism of static polymorphism.
- (i) A constructor can be virtual
- (j) Class template is a generic class.

11/CO-506/OOM(O) (4)	(iii) Public (iv) Ambiguous	(i) Dynamic (ii) Private	leaves r	· (iv) Hierarchical inheritance	(iii) Encapsulation	(ii) Polymorphism	(i) Multiple inheritance	for a derived class, the situation is known as		(iii) Singleton Class (iv) Friend Class	(i) Virtual Class (ii) Abstract Class	(a) Which of the following type of class allows only one object of it to be created?	3. Choose the correct answer: 1×5=5	
11/CO 506/OOM(O) (S)	5. (a) Explain the structure of C++ program.	(b) What are the features of object oriented programming?	4. (a) What is OOP? Explain the basic concepts of OOP.	Marks – 45		(iv) All of these.	100	(ii) A reference once established cannot be changed.	(i) A reference can never be null.	(e) Reference is not same as pointer because	(iii) Const function (iv) Virtual function	(i) Static function (ii) Friend function	(d) Which of the following is not the member of class?	

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- (b) Write a program to explain the concept of array of objects
- 6. (a) Define Encapsulation and Data hiding.
- (b) Define Token. What are the tokens used in C++? 1+4=5
- 7. (a) Explain the different types of polymorphism.
- (b) Explain various types of Inheritance.

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- 00 (a) What is the need for template function in C++? What are their advantages?
- (b) What is Function Template? What are the components of Exception Handling?
- 9. Answer any nine of the following:
- (i) Define object
- (ii) Define data abstraction.
- (iii) Define data members.
- (iv) Define abstract class.
- (v) Define derived class.

(vii) Define friend function.

(vi) Define function overloading.

- (viii) Define member functions.
- (ix) Define polymorphism.
- (x) Define message passing.



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