## End Semester/Retest Examination, 2020

Semester: V (old)

# Object Oriented Methodology(OOM)

Subject Code: Co-505

**Total Marks: 70 Marks** 

Time: (1+2) Hrs

# PART - A

(Total Mark: 25)

(This part consists of 5 questions each of which carries five mark equally. All the questions are compulsory)

	4		
	Mark	shown against the que	estion
Q1) <b>F</b> i	ill in the blank		1x5=5
a)	A class puts together	and	as a single entity
b)	members of	a class are accessible b	y the outsider of the class
c)	members of a class are sharable by all the object of that class		
	Name of destructor of a class is preceded by		
e)	operator is used to allocate memory dynamically in C++		
Q2) <b>V</b>	Vrite down whether the follo	owings are true or fals	se 1x5=5
a)	A pointer is a static data stru	icture	
b)	A class is a data type		
c)	Constructors and destructors must be defined in a class by the programmer		
d)	Dynamic data structure are not supported in c++		
	Subclass pointer can points		e class
Q3) cl	hoose the appropriate option	n	1x 5=5
i)	When a function is def a) Inside function b) Class function c) Inline function d) Interior function		
ii)	A static member funct		
11)	a) Both static and no		
	b) static member data		
	c) non-static member	data only	
	d) neither static mem	ber data nor non-static	member data
iii	) Regarding a destructor	which one of the foll	owings is true
	a) a destructor helps to cre		
	b) a destructor must have a		7.7
	c) a destructor is called by		MIRALLIBRARY
	d) a destructor can be over	loaded	100/
			*/
		and the state of	Contracting &
iv		own as class	
a)	Basic		13/

- b) Super
- c) Inherited
- d) sub

## v) What will be the output of the following code

{
int a;
a=5+3\*6/2;
cout<<a;
}

- a) 45
- b) 11
- c) 14
- d) None of the above

e)

## Q4) Answer the following in a single word/sentence

1x10=10

- a) Which feature of OOPS focuses on functionality of objects hiding details?
- b) Name the operator used with 'cout'
- c) Which access specifier blocks the unauthorised access of members of a class?
- d) Which non-member function of a class can access its private and protected members?
- e) What is the name of the parameter used in templating a function or a class?
- f) Name the constructor which has no formal arguments.
- g) In which type of inheritance a subclass can be derived out of many base classes?
- h) What is a perfect virtual function?
- i) What is an abstract class?
- j) What is the use of function template?

#### PART - B

#### (Total Mark: 45)

(This part consists of 6 questions each of which carries 9 mark equally. Out of six answering any five questions are compulsory.)

Q1) Answer the followings

5+4=9

- a) Explain briefly the main features of OOPS.
- b) How does an inline function differ from a macro?

Q2)What do you mean by data type? what is the importance data type in programming?

Discuss about the basic and user defined data types used in c++.

2+2+5=9

Q3 differentiate between

3x3 = 9

- a) Default Constructor and parametric constructor
- b) Static member data and non-static member data
- c) Function overloading and function overriding



- Q4) Differentiate between early binding and late binding? Write a c++ program to realise the concept of pure virtual function 3+6=9
- Q5) What is template? How does this help the programmer in programming? Write a c++ program to add any two number of any type realising the concept of template function and template class

  2+2+5=9
- Q6) Write short notes (any three)

3x3 = 9

- a) Friend function
- b) Abstract Class
- c) scope resolution operator
- d) Multiple inheritance

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