Roll Tota	No. Total No. of Pages : 02 al No. of Questions : 09		
	M.Sc.(Computer Science) (2019 & Onwards) (Sem.–1) OOPS USING C++ & JAVA Subject Code : MSC-102 M.Code : 70888		
Time	ne: 3 Hrs. Max. Marks: 60		
INST 1. 2.	SECTIONS TO CANDIDATES: SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students have to attempt any ONE question from each SECTION. SECTION-E is COMPULSORY consisting of TEN questions carrying TWE marks in all.	NTY	
SECTION-A			
Q.1	Lists and explain the concepts of object oriented programming with suitable example.	(10)	
Q.2	Differentiate the following:		
	a) procedure oriented and object oriented approach.	(5)	
	b) object and class.	(5)	
Q.3	SECTION-B Explain the problem statement and analysis process using object with suitable example	e	
Q.3	Explain the problem statement and analysis process using object with suitable example		
		(10)	
Q.4	What are the links and associations? Explain with example.	(5,5)	
SECTION-C			
Q.5	a) Explain data hiding with example.	(3)	
	b) Write a C++ program to show the constructor overloading	(7)	
Q.6	a) How structure is different from class?	(5)	
	b) Difference between reusable class and abstract class.	(5)	

(S6)-1012

1 | M - 70888

SECTION-D

(4)

(6)

(10)

Q.7	a) Why java is called truly object oriented?
	b) Explain the structure of java program.
Q.8	Write a java program to calculate factorial of a given number.
	SECTION-E
Q.9	Write short notes on the following:
	a) Dynamic binding
	b) Inheritance
	c) Object modelling
	d) Inline function
	e) Virtual function
	f) JVM
	g) Class
	h) Encapsulation
	i) Polymorphism
	j) Package

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

2 | M - 70888 (S6) - 1012