

BRAINWARE UNIVERSITY

Course - MAMW

OOPs Using Java (MMW103)

(Semester - 1)

Time allotted: 3 Hours]	Full Marks : 70	
[T]	he figure in the margin indicates full marks. Cand their own words as far a		their answers in	
	Group -A	\		
	(Multiple Choice Typ	e Questions)	$10 \times 1 = 10$	
1.	Choose the correct alternative from the following			
(i) J	ava compiler creates			
	a. class file	b. binary file		
	c. executable file	d. All of these		
(ii) '	Which of the following is not a valid string declara-	ation in java		
	<pre>a. String myString=new String("Hello");</pre>	b. String s="Hello";		
	c. String s=new String(10);	d. String s=new String	ng();	
(iii)	class A implements B - is a structure used to creat	ie		
	a. polymorphism	b. inheritance		
	c. copy class	d. invalid statement		
(iv)	constant variable is declared in java using the foll-	owing keyword		
	a. constant	b. final		
	c. static	d. freeze		

(v) W	Which of the following is erroneous?					
	a. a try block with only catch	b. a try block with only finally				
	c. a try block without catch or finally	d. a try block with multiple catch				
(vi)	In java new is a/an					
	a. function	b. operator				
	c. class	d. none of these				
(vii)	In System.out.println(), out is a/an					
	a. class	b. object				
	c. method	d. All of these				
(viii)	In java <i>finalize</i> is a/an					
	a. class	b. object				
	c. method	d. none of these				
(ix)	ix) Which keyword is used to compile a java program?					
	a. javac	b. javap				
	c. java	d. exec				
(x)	parseInt() method is used to convert					
	a. string to integer	b. integer to string				
	c. integer to long integer	d. none of these				
Group – B						
	Questions) $3 \times 5 = 15$					
Answer any <i>three</i> from the following 2. What is a JVM? Write down the significance of public, static and void						
3.	keywords while declaring main function. [1 + 3. Discuss the steps to run a java program through command line. [1 + 3]					
4. 5.	4. Write a short note on constructor.					
6.	Write short note on garbage collection in java?	[5]				

Group-C

(Long Answer Type Questions) $3 \times 15 = 45$

Ans	wer a	ny <i>three</i> from the following	
7.	(a)	Discuss properties of OOP.	[5]
	(b)	Write a java program to illustrate multilevel inheritance. How	[8 + 2]
		multiple inheritance is supported by java?	
8.	(a)	With suitable diagram, discuss the life cycle of thread.	[7]
	(b)	In how many ways multithreaded programming can be implemented	[5]
		in java? Explain with a snippet.	
	(c)	Briefly discuss about necessity of static keyword in java.	[3]
9.	(a)	How 2D arrays are declared and initiated in java? Write appropriate	[3]
		syntax to illustrate.	
	(b)	Write a java program to take a number from user and display the sum	[8]
		of the digits.	
	(c)	Briefly discuss the limitations of Applet?	[4]
10.	(a)	Write down differences between ArrayList and Vector?	[2]
	(b)	How exceptions are handled in java?	[10]
	(c)	Briefly describe checked and unchecked exceptions?	[3]
11.	(a)	Write a program in java to create an applet to display circle and draw	[8]
		lines using different color.	
	(b)	Write a short note on different string manipulation technique in Java.	[4]
	(c)	Discuss about throw and throws keywords.	[3]