



BRAINWARE UNIVERSITY

Library Brainware University 398, Ramkrishnapur Road, Barasat Kolkata, West Bengal-700125

Term End Examination 2024-2025 Programme - BCA(MAWT)-Hons-2024 Course Name – Object Oriented Programming in JAVA Course Code - BMT27103 (T) (Semester II)

Full Marks: 40	
	Time: 2:0 Hours
[The figure in the margin indicates full marks. Candid	dates are required to give their answers in their own
words as far a	s practicable.]

Group-A

(Multiple Choice Type Question) 1 x 10=10 Choose the correct alternative from the following: (i) Identify the organization that currently maintain Java. a) Microsoft b) IBM c) Sun Microsystem d) Oracle (ii) JVM is the ____ ___ . Identify the correct option from the following. a) Java Interpreter b) Java class c) Java compiler d) Java constant (iii) Select a major difference between OOP and Procedural Language. a) Data hiding in OOP b) Data mixing c) Less Lines of code d) No difference (iv) Select the size of a character variable (char c) in Java a) 4 bytes b) 2 bytes c) 8 bytes d) 1 byte (v) Static method in a java class could be called using . Select the most suitable option from the following. a) Class name only b) Object only c) Object or Class name d) None of these (vi) Show the correct keyword to create an object in Java. b) old c) malloc d) new (vii) JRE is implementation of _ . Identify the correct option from the following. a) Java Virtual Machine b) Desktop machine

	c) Windows machine (viii) Select a use of 'InputStreamRe	d) Java Development Kit ader' class in Java.		
	a) Scanning document	b) Scanning picture		
	c) Taking console input	d) None of these		
		ut of the following code: int $x = 5$; int $y = ++x * 2$;		
	a) 10	b) 11		
	c) 14	d) 12		
	(x) Select the package where the	Select the package where the System class is defined.		
	a) java.lang	b) java.util		
	c) java.object	d) None of these		
		The second of th		
		Group-B		
		(Short Answer Type Questions)	3 x 5=15	
	2. What is message passing in Java?		(3)	
		n, and composition with suitable examples.	(3)	
4. Write a Java program to check whether a given number is prime or not.		(3)		
5. Write a Java program to find the sum of the digits of a given number.		(3)		
		ow' keyword in Java? Demonstrate with an example.	(3)	
		OR		
	What is the difference between s	ynchronized and volatile keywords in Java?	(3)	
		Group-C		
		(Long Answer Type Questions)	5 x 3=15	
	7. What is an Object in Java? How d	oes it differ from a Class? Explain with an example.	(5)	
	8. Discuss the life cycle of a Java thr	read and the various states of it can be shown using state	(5)	
	diagram.			
	9. Discuss Wrapper Class with reference	ence to the concept of Atoboxing and Unboxing. OR	(5)	
		hich include methods to take input of two numbers, prod	uce (5)	
	their sum and output the result.	Create an object from the class and find the sum of two		
	integers.			

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