



## **BRAINWARE UNIVERSITY**

## **Term End Examination 2023** Programme – MCA-2022 Course Name – Core Java and Advanced Java **Course Code - MCA201** (Semester II)

Full Marks: 60 Time: 2:30 Hours [The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

## Group-A

(Multiple Choice Type Question) 1 x 15=15 Choose the correct alternative from the following: (i) Identify the programming style of the object-oriented conceptual model? a) Invariant relationships b) Algorithms c) Classes and objects d) Goals, are often expressed in predicate calculus. (ii) Identify What is Truncation is Java? a) Floating-point value assigned to an integer b) Integer value assigned to floating type d) Integer value assigned to floating typ c) Floating-point value assigned to an Floating (iii) The EJB specification architecture does NOT define-choose the correct answer a) transactional components b) client side security and encryption c) distributed object components d) server-side components (iv) Which of these keywords must be used to handle the exception thrown by try block in some rational manner? a) try b) finally c) throw d) catch (v) Abstraction is classified into \_\_\_\_\_\_ types-Choose the correct answer a) 4 b) 3 c) 2 d) 1 (vi) The process of compartmentalizing the elements of an abstraction that constitute its

b) Encapsulation

d) Entity Abstraction

structure and behavior is called as-Choose the correct answer

a) Hierarchy

c) Modularity

(vii)	Select the following mechanisms, types of all variables and expressions are fixed at compilation time		
(viii)	<ul><li>a) Strong Typing</li><li>c) Static Binding / early binding</li><li>Select the following mechanisms, types of all va until runtime</li></ul>	<ul><li>b) Weak Typing</li><li>d) Dynamic Binding / late binding</li><li>riables and expressions are not known</li></ul>	
(ix)	<ul><li>a) Strong Typing</li><li>c) Static Binding / early binding</li><li>Object oriented technology is built upon a soundare collectively called as</li></ul>	b) Weak Typing d) Dynamic Binding / late binding engineering foundation, whose elements	
(x)	<ul><li>a) Von Neumann Model</li><li>c) Structured Model</li><li>Callback is an operation provided by</li></ul>	b) Object Model d) Programming Model Choose the correct answer	
(xi)	<ul><li>a) Inheritance</li><li>c) Modularity</li><li>AnalyzeWhat is the lifecycle of a servlet?</li></ul>	b) Encapsulation d) Abstraction	
(xii)	<ul><li>a) Servlet class is loaded</li><li>c) init,Service,destroy method is invoked</li><li>Analyze Which HTTP Request method is non-ide</li></ul>	<ul><li>b) Servlet instance is created</li><li>d) All mentioned above</li><li>mpotent?</li></ul>	
(xiii)	<ul><li>a) GET</li><li>c) BOTH A &amp; B</li><li>Analyze Which class can handle any type of requ</li></ul>	b) POST d) None of the above lest so that it is protocol-independent	?
(xiv)	<ul><li>a) GenericServlet</li><li>c) Both A &amp; B</li><li>Which server-side component is required to be</li></ul>	<ul><li>b) HttpServlet</li><li>d) None of the above</li><li>deployed on the server?</li></ul>	
(xv)	<ul><li>a) EJBB</li><li>c) Both A &amp; B</li><li>Identify the private member functions access so</li></ul>	<ul><li>b) RMIC</li><li>d) None of the above</li><li>ope?</li></ul>	
	<ul><li>a) Member functions which can only be used within the class</li><li>c) Member functions which are accessible in derived class</li></ul>	<ul><li>b) Member functions which can use the class</li><li>d) Member functions which can't be inside the class</li></ul>	
	<b>Gro</b> i (Short Answer T	-	3 x 5=15
3. De 4. W 5. Ex	plain the Constructor Chaining? What is the use escribe the main steps involved in the JSP life cycle hat do you understand by message passing? Explain the advantages of a Rowset.  Scuss What is the difference between class and in	e ain with an example.	(3) (3) (3) (3) (3)
Di	scuss What is Abstract class in Java? How to defin	••	(3)
	<b>Gro</b> o (Long Answer T	-	5 x 6=30
7 \	What do you mean by Garbage Collection?		(5)

8.	Describe the characteristics of Object Oriented Programming.	(5)	
9.	Define What is DriverManager in JDBC?	(5)	
10.	difference between throw and throws in java- Discuss with an example.	(5)	
11.	Define Generic in Java with an example.	(5)	
12.	Write down the difference between throw and throws keyword in java	(5)	
	OR		
	Differentiate between Thread and Process.	(5)	
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