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Library
Brainware University
398, Ramkrishnapur Road, Barasat
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## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025

Programme – MCA-2024

Course Name – Object Oriented Design Using Java

Course Code - MCA27108 (T)

( Semester II )

Full Marks: 40

Time: 2:0 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 10=10

- Choose the correct alternative from the following :
- (i) Choose the true fact about variables declared without any modifier inside an interface.
  - a) Variables are implicitly private and final.
- b) Variables are implicitly public, static, and final.
- c) Variables can be declared as protected.
- d) Variables are dynamic and can be changed.
- (ii) Choose the correct combination of modifiers that are implicitly declared for all methods in interfaces when no specific modifier is provided.
  - a) public and static

b) private and abstract

c) public and abstract

- d) protected and final
- (iii) Evaluate the following methods and choose the method that executes the SQL query in the PreparedStatement object and returns the ResultSet object generated by the query.
  - a) execute()

b) executeLargeUpdate()

c) executeQuery()

- d) executeInsert()
- (iv) Determine which method of the ResultSet interface is used to retrieve data from a particular column.
  - a) getData()

b) fetch()

c) getString()

- d) getColumn()
- (v) What is the difference between start() and init() methods in an applet?
  - a) init() is called when the applet is first loaded, and start() is called every time the applet is
- start() is called before init().

- shown.
- c) start() is optional, while init() is mandatory.
- d) init() is used to stop the applet.

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	in an applet?	
by paint().	b) repaint() directly calls paint().	
entire UI.	d) repaint() restarts the applet.	
) State the default layout manager for an applet.		
a) FlowLayout c) GridLayout	b) BorderLayout d) CardLayout	
) Indicate the method called when a mouse button		
a) mousePressed() c) mouseEntered()	b) mouseClicked() d) mouseExited()	
Decide which methods can be used to obtain the foreground colors.	current settings for the background and	
a) getBackground() and getForeground()	b) getBackgroundColor() and getForegroundColor()	
<ul><li>c) setBackground() and setForeground()</li><li>Find the correct constructor for a thread from the</li></ul>	d) None of these	
<ul><li>a) Thread(Runnable a, String str)</li><li>c) Thread(Runnable a, int priority)</li></ul>	<ul><li>b) Thread(int priority)</li><li>d) Thread(Runnable a, ThreadGroup t)</li></ul>	
(Short Answer Ty	rpe Questions) 3	x 5=15
Vrite a program in Java to demonstrate the use of in	nterfaces.	(3)
Vrite a Java program to create a thread by extendin nethod to print 'Hello from Thread!' five times.	g the Thread class and overriding the run()	(3)
		(3)
5. When would you use the Runnable interface instead of extending the Thread class in Java?		(3)
6. Discuss the concept of thread priority in Java.		(3)
		(3)
	The fig. 100 and from the second	
(Long Answer Ty	pe Questions) 5	x 3=15
istinguish between the Runnable and Callable inte pplets.	rfaces in Java and explain their use in	(5)
xplain the importance of the throw and throws key heir use with an example.	words in exception handling. Demonstrate	(5)
hich objects to collect? Discuss the different types	of garbage collectors.	(5)
		(5)
		<b>\-</b> /
	나는 사용 사용 사용 사용 사용 사용 기계를 받는 것이 되었다. 함께 보고 있는 것이 되었다.	
	a) repaint() requests to call update() followed by paint(). c) repaint() clears the screen and redraws the entire UI. State the default layout manager for an applet. a) FlowLayout c) GridLayout l) Indicate the method called when a mouse button a) mousePressed() c) mouseEntered() Decide which methods can be used to obtain the foreground colors. a) getBackground() and getForeground() c) setBackground() and setForeground() Find the correct constructor for a thread from the a) Thread(Runnable a, String str) c) Thread(Runnable a, int priority)  Group (Short Answer Ty)  Write a program in Java to demonstrate the use of in the analysis of the content of the set of set of the set of the set of set of the set of set of the set of set o	by paint().  c) repaint() clears the screen and redraws the entire UI.  l) State the default layout manager for an applet.  a) FlowLayout c) GridLayout d) CardLayout d) CardLayout l) Indicate the method called when a mouse button is pressed within an applet. a) mousePressed() b) mouseClicked() c) mouseEntered() Decide which methods can be used to obtain the current settings for the background and foreground colors.  a) getBackground() and getForeground() c) setBackground() and setForeground() d) None of these Find the correct constructor for a thread from the following: a) Thread(Runnable a, String str) b) Thread((int priority) c) Thread(Runnable a, int priority) d) Thread(Runnable a, ThreadGroup t)  Group-B (Short Answer Type Questions)  3  Write a program in Java to demonstrate the use of interfaces. Write a Java program to create a thread by extending the Thread class and overriding the run() nethod to print "Hello from Thread!" five times. ormulate what the yield() method of the Thread class does in Java. When would you use the Runnable interface instead of extending the Thread class in Java? viscuss the concept of thread priority in Java.  OR xplain the differences between a Thread and a Process.  Group-C (Long Answer Type Questions)  5  istinguish between the Runnable and Callable interfaces in Java and explain their use in piplets. xplain the importance of the throw and throws keywords in exception handling. Demonstrate

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