Note: Correct responses are based on Java, J2sdk v 6.0, from Sun Microsystems, Inc. All provided code segments are intended to be syntactically correct, unless otherwise stated (i. e. error is an answer choice) and any necessary Java 2 Standard Packages have been imported. Ignore any typographical errors and assume any undefined variables are defined as used.

QUESTION 1						
101 <sub>2</sub> + 101 <sub>2</sub> = ?						
<b>A.</b> 111 <sub>2</sub>	<b>B</b> . 1010 <sub>2</sub>	C. 1	1112	D. 11 <sub>10</sub>	E. 12 <sub>13</sub>	
QUESTION 2				int a = 8;		
What is output by the code	to the right?		a = a + 2;			
A. 8 B. 9	C. 10	D. 11	<b>E.</b> 12	System.out.println(a	1);	
QUESTION 3						
What is output by the code	to the right?		Integer b = 5; b -= 6;			
<b>A.</b> -1 <b>B.</b> 0	C. 1	<b>D.</b> 2		System.out.println(b);		
E. There is no output due t	o a syntax erro	or.				
QUESTION 4				- 1 \		
What is output by the code to the right?				<pre>for(int c=0; c&lt;3; c++)    System.out.print(c);</pre>		
A. 123 B. 1234	C. 01	<b>D.</b> 012	E. 0123			
QUESTION 5				String d = "a dog is	s inst a dog":	
What is output by the code	•	D 0	F 16	System.out.print(d.indexOf('d'));		
A. 0 B1  QUESTION 6	C. 3	<b>D.</b> 2	E. 16			
				double[] eRay = {8,4,7,6,5};	·,7,6,5};	
What is output by the code to the right?  A. 5 B. 6 C. 7 D. 5.0 E. 6.0			E. 6.0	<pre>System.out.println(eRay[3]);</pre>		
A. 5 B. 6  QUESTION 7	C. /	D. 5.0	E. 6.U			
What is output by the code to the right?				boolean eBoola = true;		
A. ves B. no	es B. no C. eBoola D. true E. false			<pre>System.out.println(!eBoola);</pre>		
A. yes B. no Question 8	C. eB001a	D. true	E. laise	da to Salaran 2		
What is output by the code to the right?				<pre>int fNum = 3; if(fNum == 2)</pre>		
A. 10 B. 01	C. 11	D. 0	E. 1	System.out.println System.out.println(1		
QUESTION 9	C. 11	D. 0		System.out.printin(1	-) /	
Which of the following rep	laces <b>&lt;*1&gt;</b> i	n the code to t	<pre>public class Great {</pre>			
correctly complete the cons						
A. n=num;				<pre>private int num; public Great(int n)</pre>		
B. num=n;			{			
C. num=3.2;						
D. System.out.print	.ln(num);		}			
E. more than one of these						
QUESTION 10						
What is output by the code	•	<b>.</b>	System.out.println(1	.0   2);		
<b>A.</b> 10 <b>B.</b> 2	C. 3	D. 8	E. 12			

QUESTION 11					
What is output by the code to the right?					System.out.println(Math.pow(2,4));
<b>A.</b> 2	<b>B</b> . 2.0	C. 8.0	D. 16.0	E. 16	
QUESTION 12					
What is output by the code to the right?					System.out.printf("%.2f",2.536);
<b>A.</b> 2.56	<b>B</b> . 2.54	C. 2.55	<b>D</b> . 2.53	E. 2.536	
QUESTION 13	_				int[][] bMot = ((1 2 2) (4 5 6)).
What is output by the code to the right?				<pre>int[][] hMat = {{1,2,3},{4,5,6}}; System.out.println(hMat.length);</pre>	
A. 3	B. 1	C. 2	<b>D</b> . 0	E. 4	
QUESTION 14  What is output by the code to the right?				int iSum=0; for(int i=0; i<10; i=i+3)	
A. 11	B. 14	C. 17	D. 18	E. 20	<pre>iSum += i;</pre>
					<pre>} System.out.println(iSum);</pre>
QUESTION 15					String j = "sure-you-are-yes";
1		e to the right?	_	_	System.out.print(j.substring(11));
A. sure QUESTION 16	B. you	Cyes	D. e-yes	Eyou	
	but by the cod	a to the right?			
A. 427	What is output by the code to the right?  A. 427 B. 3127 C. 4225 D. 31225				System.out.print(3 + 1 + "2" + 2 + 5);
		to a syntax err			
QUESTION 17	-				
What is output by the code to the right?				System.out.println(5 * 2.5);	
<b>A.</b> 12.5	<b>B</b> . 13	C. 12	<b>D</b> . 13.0	E. 14	
QUESTION 18					
What is output by the code to the right?					<pre>boolean k = true, m = false; System.out.println(k &amp;&amp; (m    k));</pre>
A. false	B. true	C. stop	<b>D</b> . 0	E. 1	
QUESTION 19  ArrayList <integer> n.</integer>					ArrayList <integer> n;</integer>
_		e to the right?			<pre>n = new ArrayList<integer>();</integer></pre>
<b>A.</b> 3	<b>B.</b> 2	C. 6	<b>D</b> . 5	E. 0	n.add(3); n.add(2);
					<pre>int ans = n.get(0) * n.get(1); System.out.println(ans);</pre>
					System.out.printin(ans);
QUESTION 20				double dbl = $9/4$ ;	
What is output by the code to the right?				System.out.println(dbl);	
A. 2.5  QUESTION 21	<b>B.</b> 2	C. 2.0	D. 2.25	E. 3.0	
					double pNum = 2.5;
What is output by the code to the right?  A. 10.5 B. 11 C. 11.0 D. 11.5 E. 12.0					<pre>while(pNum &lt; 9) {</pre>
<b>A</b> . 10.5	<b>D</b> . 11	C. 11.U	<b>D</b> . 11.5	E. 12.0	pNum += 3;
					<pre>} System.out.println(pNum);</pre>
					- '- '-

## QUESTION 22 public static int what(int x) What is returned by the method call what (25) ? if(x>0 && x<10)**A**. 7 **B**. 8 **C**. 9 D. 10 E. -1 return 7; QUESTION 23 else if (x>10 && x<20)return 8; What is returned by the method call what (10) ? else if (x>20 && x<30)return 9; **A.** 7 **B**. 8 **C**. 9 D. 10 E. -1 else return -1; QUESTION 24 public class Thang What is output by the line marked //1 in the client code to the right? private int num; **A**. 0 B. 1 public Thang(int n) C. 2 num = n;D. 8 E. 1.0 public int getNum() QUESTION 25 return num; What is output by the line marked //2 in the client code to the right? **A**. 0 public class Bug extends Thang B. 1 private double dec; **C**. 2 D. 8 public Bug(int d) E. 1.0 super(2); QUESTION 26 dec = d;What is output by the line marked //3 in the client code to the right? public double getDec() **A**. 0 return dec; B. 1 **C**. 2 } D. 8 E. 1.0 //client code Thang one = new Thang(8); out.println(one.getNum()); //1 Bug two = new Bug(1); out.println(two.getNum()); //2 //3 out.println(two.getDec()); QUESTION 27 Integer count = 0; Integer[] intRay = $\{33,44,55,66,78\}$ ; What is output by the line marked //1 in the code to the right? **A**. 33 B. 44 C. 55 D. 66 E. 78 for(Integer i : intRay) { if (i.intValue() %2==0) count++; QUESTION 28 What is output by the line marked //2 in the code to the right? out.println(intRay[3/2]); //1 //2 **C**. 3 out.println(count); **A**. 1 **B**. 2 D. 4 E. 5

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QUESTION 29
What is returned by the method call wow (7)?
                                                              public static int wow(int x)
A. 7
             B. 9
                        C. 10
                                    D. 11
                                                 E. 14
                                                                 if(x>0)
                                                                   return 1 + wow(x-2);
QUESTION 30
                                                                 else
What is returned by the method call wow (11)?
                                                                   return 5;
                                                              }
A. 7
             B. 9
                        C. 10
                                    D. 11
                                                 E. 14
QUESTION 31
                                                              String orig = "100";
What is output by the code to the right?
                                                              int guess = Integer.parseInt(orig, 7);
                                                              System.out.println(guess);
A. 100
             B. 64
                        C. 49
                                    D. 36
                                                 E. 81
QUESTION 32
                                                              public void print(TreeNode tree)
What type of tree traversal is shown by the code to the right?
                                                                  if(tree != null)
A. in-order traversal
B. post-order traversal
                                                                     out.println(tree.getValue());
                                                                     print(tree.getLeft());
C. pre-order traversal
                                                                     print(tree.getRight());
D. reverse-order traversal
                                                              }
E. level-order traversal
QUESTION 33
What is output by the line marked //1 in the code to the right?
             B. cd
                        C. ef
                                    D. nu11
A. ab
                                                 E. 2
QUESTION 34
What is output by the line marked //2 in the code to the right?
                                                              Stack<String> stack;
                                                              stack = new Stack<String>();
             B. cd
                        C. ef
A. ab
                                    D. null
                                                 E. 2
                                                              stack.push("ab");
                                                              stack.push("cd");
QUESTION 35
                                                              stack.push("ef");
                                                              System.out.println(stack.pop()); //1
What is output by the line marked //3 in the code to the right?
                                                              System.out.println(stack.peek()); //2
A. [ab, cd, ef]
                                                              System.out.println(stack);
                                                                                                     //3
B. [ab, cd]
C. [cd, ef]
D. [cd, ab]
E. [ef, cd]
QUESTION 36
                                                              Queue<String> queue;
What is output by the line marked //1 in the code to the right?
                                                              queue = new LinkedList<String>();
                                                              PriorityQueue<String> pQueue;
A. ab
             B. cd
                        C. ef
                                    D. null
                                                 E. 3
                                                              pQueue = new PriorityQueue<String>();
                                                              String[] stuff = {"cd", "ab", "ef"};
                                                              for(String s : stuff)
QUESTION 37
What is output by the line marked //2 in the code to the right?
                                                                  queue.add(s);
                                                                  pQueue.add(s);
             B. cd
                        C. ef
                                    D. null
                                                 E. 3
A. ab
                                                                                                   //1
                                                              out.println(queue.remove());
                                                                                                   //2
                                                              out.println(pQueue.remove());
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QUESTION 38	
What is output by the code to the right?	System.out.println(~22);
A22 B21 C. 22 D2	3 E. 23
QUESTION 39	
What is output by the line marked //1 in the cod	de to the right?
A. a B. r3 C. wer3 D. 3s	<pre>wde String x = "a12wer32r323swde21"; String[] list = x.split("[12xy]");</pre>
E. There is no output.	String[] fist - x.spirt([izxy]),
QUESTION 40	<pre>out.println(list[3]);</pre>
What is output by the line marked //2 in the coo	± , , , , , , , , , , , , , , , , , , ,
A. 1 B. 2 C. 3 D. 4	E. 5