Note: Correct responses are based on Java, **J2sdk v 1.8.x**, 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. **For all output statements, assume that the System class has been statically imported...** *import static java.lang.System.**;

```
QUESTION 1
What is 1011112 plus 1010002 ?
A. 110111<sub>2</sub>
                        B. 1011111<sub>2</sub>
                                          C. A7<sub>16</sub>
                                                                  D. 59<sub>16</sub>
                                                                                        E. 87<sub>10</sub>
QUESTION 2
What is output by the code to the right?
                                                              int x = 34, y = 2;
                                                              int z = x + y / x - y;
            B. 1.125 C. 31.942
A. 32
                                                              out.println(z);
D. 49
            E. error – type mismatch
QUESTION 3
What is output by the code to the right?
A. MAYDAYMAYDAYMAYDAY
                                                              String k = "MAYDAY";
B. MAYDAY
               MAYDAYMAYDAY
                                                              out.printf("MAYDAY%-10ss",k);
C. MAYDAYs
D. MAYDAYMAYDAY
                       S
E. MAYDAY
               MAYDAYs
QUESTION 4
What is output by the code to the right?
A. 4536
                                                              String x = "1245365154896";
B. 24536
                                                              x = x.substring(2,5);
C. 245
                                                              out.println(x);
D. 453
E. 2453
QUESTION 5
What values for a, b, and c will make the code to the right output
true?
                                                              boolean a, b, c, d;
A. a = false; b = true; c = false;
                                                              d = a ^ b & c;
B. a = true; b = true; c = true;
                                                              out.println(d);
C. a = false; b = false; c = false;
D. a = false; b = false; c = true;
E. a = true; b = false; c = false;
QUESTION 6
What is output by the code to the right?
A. -3
B. -2.435
                                                              out.println(Math.ceil(-2.535));
C. -3.0
D. -2.0
E. -2
```

```
What is output by the code to the right?
                                                          int x = 37;
A. 0 2 2
                                                          int y = x/12;
B. 111 3 0
                                                          int z = y%6;;
                                                          x = x*(y-z);
C. 0 3 3
                                                          out.println(x+""+y+""+z);
D. 74 2 0
E. 37 1 0
QUESTION 8
                                                          int x = 332;
What is output by the code to the right?
                                                          switch(x%5){
A. 2
                                                                 case 0: x\%=6; break;
                                                                 case 1: x%=2; break;
B. 1
                                                                 case 2: x\%=5; break;
C. 5
                                                                 case 3: x%=4; break;
D. 4
                                                                 case 4: x\%=3; break;
E. 3
                                                          out.println(x);
QUESTION 9
What is output by the code to the right?
A. 326
                                                          int x = 326;
                                                          for (int i=0; i < x; i+=7)
B. 158
                                                              x = 7;
C. 165
                                                          out.println(x);
D. 0
E. 163
QUESTION 10
What is output by the code to the right?
A. -15
                                                          int[] x = {26,38,35,23,45,37};
B. 10
                                                          int y = x[3]-x[1];
                                                          out.println(y);
C. 14
D. 11
E. index out of bounds exception
QUESTION 11
                                                          Scanner input =
                                                             new Scanner(new File("file.txt"));
Which of the following correctly replaces <*1> in the code to the
                                                          int age, level;
right such that the file will be correctly read and outputted?
                                                          String name;
A. input.hasNextLine()
                                                          while( <*1>
B. input.hasNextInt()
                                                             age = input.nextInt();
C. input.hasNext()
                                                             level = input.nextInt();
                                                            name = input.nextLine();
D. input.hasNextDouble()
                                                             out.println(age+"\n"+level+"\n"+
E. all of the above
                                                                          name);
                                                          }
                                                          //FILE TO BE READ
                                                          26 13 Houston
                                                          2 14 Dallas Fort Worth
                                                          36 -8 San Antonio
                                                          1 4 Lubbock
```

What is output by the code to the right? A. 0 B. 5 C. 2 D. 20 E. no output due to an infinite loop int x = 0; for (double i=34; i<39; i+=1/4) x++;out.println(x);

QUESTION 13

Which of the following has the highest order of precedence?

A. * B. cast

B. casting

C. !=

D. <<

E. +

QUESTION 14

What is output by the code to the right?

A. -6

B. -5

C. 4

D. -4

E. 6

int x = 5;

out.println(\sim x);

QUESTION 15

What is output by the code to the right?

 $A.\ [\mathtt{ALL},\ \mathtt{EVERY},\ \mathtt{TIME},\ \mathtt{DAY},\ \mathtt{STUDY}]$

 $B.\ [\mbox{ALL, STUDY, EVERY, DAY, TIME}]$

C. [STUDY, ALL, DAY, EVERY, TIME]

D. [ALL, EVERY, TIME]

E. There is no output due to a run-time error

ArrayList<String> list; list = new ArrayList<String>(); list.add(0,"STUDY"); list.add(1,"ALL"); list.add(1,"DAY"); list.add(1,"EVERY"); list.add(2,"TIME"); out.println(list);

QUESTION 16

What are the three most important properties of object orientated programming?

- A. encapsulation, instantiation, modification
- B. inheritance, polymorphism, abstraction
- C. encapsulation, inheritance, polymorphism
- D. modification, inheritance, instantiation
- E. implementation, extension, encapsulation

```
QUESTION 17
                                                      class Battery
What could best fill in <*1> such that the code to the right will
output 41?
                                                        private int charge;
A. this.chargeBattery (x/3);
                                                        public Battery(int x)
                                                             charge = x;
                                                        public void chargeBattery(int y)
B. super (x+x/3);
                                                             charge+=y;
                                                        public int getBattery()
C. chargeBattery (x/3);
                                                             return charge;
                                                                                             }
                                                      }
D. charge+=x/3;
                                                      class Solar extends Battery
E. super.chargeBattery(x/3);
                                                        public Solar(int x)
                                                              super(x);
                                                       public void chargeBattery(int x)
                                                             <*1>
                                                      Solar bat = new Solar(25);
                                                      bat.chargeBattery(50);
                                                      out.println(bat.getBattery());
QUESTION 18
What is output by the code on the right if list holds the following
numbers: {1,5,1,5,1,1,1,5,1,6,2,1,1,1,4,5,1,5}?
                                                      ArrayList <Integer> list;
                                                      list = new ArrayList<>();
A. [1,5,1,5,1,1,1,5,1,6,2,1,1,1,4,5,1,5]
                                                      for(int k=0; k<list.size(); k++)</pre>
B. [6]
                                                            if(list.get(k) < 5)
C. [5, 5, 5, 6, 5, 5]
                                                                   list.remove(k);
                                                      out.println(list);
D. [5,5,1,5,6,1,1,5,5]
E. There is no output due to a runtime error
QUESTION 19
What is a possible output for the code to the right?
A. 13
                                                      int a,b;
                                                      a = /* value not shown */;
B. -7
                                                      b = 13;
C. -1
                                                      int x = a%b-6;
                                                      out.println(x);
D. 12
E. 8
QUESTION 20
                                                      int[] x = {4,2,8,4,6,2};
What is output by the code to the right?
                                                      int y = 0;
                                                      while (x[y]>0) {
A. 1 0 6 2 4 0
                                                            x[y] ==1;
B. 2 1 6 2 4 0
                                                            y++;
C. 2 0 6 2 4 0
                                                            y%=x.length;
D. 1 0 5 1 3 0
                                                      for(int k:x)
E. 1 1 5 1 3 0
                                                            out.print(k+" ");
                                                      out.println();
QUESTION 21
```

What is output by line <*1> in the code on the right?	public static int mys(int	x)
	{	21)
A. 7	int n;	
B. 8	if(x<=5) x-=3;	
C. 3	else	
D. 5	{	
E. 4	n =x/10; if (n<5)	
Question 22	x = n +	3;
How many unique numbers are printed by line <*2> in the code on the right?	else $x = 7;$	
A. 11	return x;	
B . 100	}	
C. 7		///////////////////////////////////////
D. 10	// CLIENT CODE ///////	
E. 8	out.println(mys(17));<*1>	
	<pre>for(int i=0; i<=100; i++) out.print(mys(i)+" ");</pre>	<*?>
		· 2/
Question 23		
What is output by line <*1> in the code on the right?		
A . 30		
B . 5	out.println(26 31&30 5);	
C. 31		
D. 26		
E. 0		
QUESTION 24		
What is the boolean expression for the truth table to the right?		
A. A&&B		
B. ! (A&&B)		
C. A B		
D. ! (A B)	АВ	333
E. !A !B	Т Т	F
	T F	F
	F T	F
	F F	Т

QUESTION 25

What is output by line **<*1>** in the code on the right?

- A. RSNCRUIHK?SAAE?
- B. RCNSRKHIUEAAS?
- C. RUSKSIAERNHAR?
- D. RUSSIANHACKER
- E. There is no output due to a run-time error

QUESTION 26

What could replace <*2> in the code on the right so that the code after <*3> prints IAOH? ?

- A. LIESAREBOUNDTOBE
- B. WITHAROOKTHING
- C. ISINCANTONOHIO
- D. SPINTHEOLDHATS
- E. There is no output due to a run-time error

```
public static char[][] mys2(String x)
 int num = x.length()/3;
 char[][] k = new char[3][num+1];
 int i=0;
 for (int c = 0; c < k[0].length; c++)
    for(int r=0; r<k.length; r++)</pre>
       if(i<x.length())</pre>
         k[r][c]=x.charAt(i++);
         k[r][c]='?';
 return k;
char[][]mat = mys2("RUSSIANHACKER");
for(char[] x:mat)
 for(char y:x)
    out.print(y);
out.println(); <*1>
mat = mys2( <*2> );
<*3>
for(char y : mat[2])
  out.print(y);
out.println();
```

QUESTION 27

What is returned by the method call mys3 (0)?

- **A.** 10
- **B**. 28
- **C**. 25
- D. 31
- E. There is no output due to an infinite loop

QUESTION 28

What is returned by the method call mys3(-mys3(-2))?

- **A**. 28
- **B**. 103
- C. 130
- D. 10
- E. There is no output due to an infinite loop

```
public static int mys3(int x)
{
  if (x>5)
    return 10;
  return 3 + mys3(x+1);
}
```

QUESTION 29

What is the binary value of the hexadecimal number AC7?

A. 1010010110

B. 10011101111

C. 1011111 D. 1011111100001

E. 101011000111

QUESTION 30

What is the height of the binary search tree created on the right?

C. 4

A. 6

D. 3

E.

Put the following values into a binary search tree from left to right order

17 46 34 32 2 13

QUESTION 31

What is the level of the value 32 in the binary search tree created on the right?

A. 3

B. 0

B. 2

C. 1

D. 4

E. 2

QUESTION 32

What would the post order printing of the binary search tree look like?

A. 2 13 17 32 34 46

B. 17 2 46 13 34 32

C. 17 2 13 46 34 46

D. 17 46 34 32 2 13

E. 13 2 32 34 46 17

QUESTION 33

What is output by the code on the right?

A. [1, 15, 7, 48, 4, 5, 42]

B. [15, 7, 48, 4, 1, 5, 42]

C. [1, 4, 5, 15, 7, 48, 42]

D. [1, 4, 5, 7, 15, 42, 48]

E. you cannot predict the order

int[] list = {15,7,48,4,1,5,42};

PriorityQueue<Integer> x; x = new PriorityQueue <> ();

for(int k:list)

x.add(k);out.println(x);

QUESTION 34

What is output by the code on the right?

A. 3271

B. 961

C. 29192

D. 409

E. 1124

out.println(3274>>3);

QUESTION 35

How many empty Strings are contained in list after the code on the right is completed?

A. 4

B. 3

C. 0

D. 1

E. 2

String x = "IWANNABEALIFETIMEFRIEND"; String[] list = x.split("[NI]");

QUESTION 36

!AB! (A&&C) + !B(!A!C)

A. A+BC B. !A (B+!C) C. !A (B+!C) D. !A B! C E. 1 DUESTION 37 What is the name of the logic symbol to the right? A. AND B. NAND C. XOR D. NOR E. OR DOISSION 38 Convert the postfix notation equation to the right into a infix notation equation. A. A+B^C/.5^1.5^1-D^B/2 B. (A+B)^C(.5^1.5^1-D^B/2) B. (A+B)^C(.5^1.5^1-D^B/2) C. A*(B+C)^1.5^1/(D-D)^C.5 D. (A/(B+C)^1.5^1/(D-D)^2.5 D. (A/(B+C)^1.5^1/(D-D)^2.5 D. (A/(B+C)^1.5^1/(D-D)^2.5 DISSION 39 OFEN ENDED QUESTION - Find the answer and write it on your answer sheet. If you are using a ScanTron form, write the question number and the answer on the bottom of the ScanTron. What does the signed byte data type look like when storing the decimal value to the right? bit bit bit bit bit bit bit bit bit DOFEN ENDED QUESTION - Fill in the blank spaces with the proper bits (1 or 0) and write it on your answer sheet. If you are using a ScanTron form, write the question number and the answer on the bottom of the ScanTron. What does the signed byte data type look like when storing the decimal value to the right? bit bit bit bit bit bit bit bit bit NOT (RCIRC-4 (D11101) XOR LSHIFT-2 (x)) =110110 What is a possible value for x which makes this equation true?	Simplify	the Boo	lean alge	bra state	ment on	the right			
B. !A (B+!B!C) C. !A (B+!C) D. !A!B!C E. 1 DUESTICK 37 What is the name of the logic symbol to the right? A. AND B. NAND C. XOR D. NOR E. OR DUESTICK 38 Convert the postfix notation equation to the right into a infix notation equation. A. A+B^C/.5^*.5*1-D^*E/2 B. (A+B)^*(C'.5)*(.5)*(1-D)^*E/2 C. A* (B+C)^*.5)*(.5)*(1-D)^*E/2 E. (A+B^*.5*C) / (1-D/2*B)^*.5 DUESTICK 38 OURSTICK 39 OPEN ENDED QUESTION — Find the answer and write it on your answer sheet. If you are using a ScanTron form, write the question number and the answer on the bottom of the ScanTron. What does the signed byte data type look like when storing the decimal value to the right? bit OPEN ENDED QUESTION — Fill in the blank spaces with the proper bits (1 or 0) and write it on your answer sheet. If you are using a ScanTron form, write the question number and the answer on the bottom of the ScanTron. NOT (RCIRC-4 (011101) NOR LSHIFT-2 (x))=110110	Simplify the Boolean algebra statement on the right					8			
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