

Benazir Bhutto Shaheed Human Resources Research and Development Board (BBSHRRDB) Mehran University of Engineering & Technology (MUET) Jamshoro **Android Development**



First Monthly Test

First Monthly Test		Date: 16/05/2022
Candidate Name:	d) 3	
Candidate ID:	e) 12	
Q1. Which of the following are legal int literals?	Q6.What are the values of a, b	o, and c after the following code statements
a) 2.3	int a = 5;	
b) 22	int b = 10;	
c) 5.	int c = b;	
d) 1.5	a = a + 1;	
e) '7'	b = b - 1;	
f) -6875309	c = c + a;	
g) 10.0	a:	
h) -1	b:	
Q2. What is the result of the following expression?	c:	
1+2*3+7*2%5	<u></u>	
	O7 What are the relices of firm	
a) 2	Q/.wnat are the values of firs code?	t and second at the end of the following
b) 1	int first = 8;	
c) 5	int second = 19;	
d) 21	first = first + second;	
e) 11	second = first - second;	
	first = first - second;	
Q3. Trace the evaluation of the following expressions, and give their resulting values. Make sure to give a value of the appropriate type (such as including a .0 at the end of a double or quotes around a String).		
	second	
a) 2 + 2 + 3 + 4	Second	
b) "2 + 2 " + 3 + 4	CONTRACTOR AND	and the first the fallent translation and a state of the
c) 2 + " 2 + 3 " + 4		and k after the following code statements?
d) 3 + 4 + " 2 + 2"	int i = 2;	
e) "2 + 2 " + (3 + 4)	int j = 3;	
f) "(2 + 2) " + (3 + 4)	int k = 4;	
g) "hello 34 " + 2 * 4	int x = i + j + k;	
h) 2 + "(int) 2.0" + 2 * 2 + 2		
i) 4 + 1 + 9 + "." + (-3 + 10) + 11 / 3	i = x - i - j;	
.,,,.	j = x - j - k;	
	$\mathbf{k} = \mathbf{x} - \mathbf{i} - \mathbf{k};$	
O4 Which of the fellowing sheires is the sourcet system for declaring	i:	
Q4.Which of the following choices is the correct syntax for declaring a real number variable named 'grade' and initializing its value to 4.0?	j:	
a) 4.0 = grade;	k:	
b) double grade = 4.0;		
c) grade = 4;	Q9.What is the output from th	ne following code?
d) grade = double 4.0;	int max;	
e) int grade : 4.0;	int min = 10;	
, ,	max = 17 - 4 / 10;	
Q5.What is the value of variable x after the following code executes:	max = max + 6;	
int $x = 3$;	min = max - min;	
	System.out.println(max * 2);	
x = x + 2;	System.out.println(max + min):
x = x + x;	System.out.println(max);	"
a) 10	System.out.println(max),	
b) 7	System.out.printinginit);	
c) 5		

Output:___



b) if x = 10 then {

d) if (x equals 42) {

c) if (x == y) {

e) if (x => y) {

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Q19.If the date falls between 12/16 and 3/15, you should return "Winter".

If the date falls between 3/16 and 6/15, you should return "Spring".

If the date falls between 6/16 and 9/15, you should return "Summer". And if the date falls between 9/16 and 12/15, you should return "Fall".

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Q10.What is the output of the following oddStuff method?	Q14.Consider the following method.	
public static void oddStuff() {	<pre>public static void ifElseMystery1(int x, int y) {</pre>	
int number = 4;	int z = 4;	
for (int count = 1; count <= number; count++) {	if $(z \le x)$ { $z = x + 1$; } else { $z = z + 9$; }	
System.out.println(number);	if (z <= y) { y++; }	
number = number / 2;	System.out.println(z + " " + y);	
}	}	
}	For each call below, indicate what output is produced.	
output:	ifElseMystery1(3, 20);	
	ifElseMystery1(4, 5);	
Q11.Translate each of the following English statements into logical tests	ifElseMystery1(5, 5);	
that could be used in an if/else statement. Write the appropriate logical test for each statement below. Assume that three int variables, x, y, and z, have already been declared.	ifElseMystery1(6, 10);	
a. z is odd	Q15.Write Java code to read an integer from the user, then print even if	
b. z is not greater than y's square root	that number is an even number or odd otherwise. You may assume that the user types a valid integer	
c. y is positive d. Either x or y is even, and the other is odd. (Hint: Don't use && or .)	Write a piece of code that reads a shorthand text description of color and prints the longer equivalent.	
e. z is not zero	Acceptable color names are B for Blue, G for Green, and R for Red. If the user types something other than B, G, or R,	
f. y is greater in magnitude than z	the program should print an error message. Make your program case- insensitive so that the user can type an uppercase or lowercase letter.	
g. x and z are of opposite signs.	Here are two example executions:	
h. y is a nonnegative one-digit number	->What color do you want? R	
i. z is nonnegative	You have chosen Red.	
j. x is even	->What color do you want? Bork	
k. x is closer in value to y than z is	Unknown color: Bork	
Q12. Given the following variable declarations:	045 U.S	
int x = 4;	Q16.How many numbers? 4	
int y = -3;	Next number> 7	
int z = 4;	Next number> 2	
What are the results of the following relational expressions?	Next number> 3	
a) x == 4	Next number> 15	
b) x == γ	Product = 630	
e) x + y > 0		
f) x - z != 0	Q17 .Write a method named repl that accepts a String and a number of repetitions as parameters and returns the String concatenated that many times. For example, the call repl("hello", 3) returns "hellohellohello". If the number of repetitions is 0 or less, an empty string is returned.	
g) y * y <= z		
h) y / y == 1	Q18 .Write a method named season that takes two integers as	
i) x * (y + 2) > y - (y + z) * 2	parameters representing a month and day and that returns a String indicating the season for that month and day.	
Q13.Which of the following if statement headers uses the correct syntax?	Assume that months are specified as an integer between 1 and 12 (1 for January, 2 for February, and so on) and that the day of the month is a	
a) if [x == 10] {	number between 1 and 31.	



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Q20.Write a method called printRange that accepts two integers as arguments and prints the sequence of numbers between the two arguments, separated by spaces. Print an increasing sequence if the first argument is smaller than the second; otherwise, print a decreasing sequence. If the two numbers are the same, that number should be printed by itself. Here are some sample calls to printRange:

printRange(2, 7);
printRange(19, 11);
printRange(5, 5);
The output produced should be the following:
2 3 4 5 6 7
19 18 17 16 15 14 13 12 11

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