MID RYAN ☺

Test: Java Foundations Midterm Exam

Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.

	tion swer	2 all questions in this section)	
1.		ch of the following are adequate definitions for components of the Spiral Model evelopment?	Mark for Review (1) Points
	(Cho	oose all correct answers)	
		Develop: Collect all specified instructions	
		Requirements: Start the development	
	V	Design: Plan the approach (*)	
	V	Test: Run the code and verify results (*)	
	7	Correct	
2.	If th	e requirement step of the Spiral Model of development is forgotten, which of following could occur?	Mark for Review (1) Points
	0	Solutions seem elusive.	
	0	The Program gives inaccurate results.	
	0	Code becomes messy.	
	•	Required software features are missing from the program. (*)	
	V	Correct	
3.	A so	ftware feature may allow the user to perform a specific task.	Mark for Review (1) Points
	•	True (*)	
	0	False	
	V	Correct	
4.	Whic	ch of the following language is called a procedural language?	Mark for Review (1) Points
	0	Java C	
	0	C++	
	0	Java	
	•	C (*)	
	V	Correct	
5.	In th	ne code example below, identify any methods:	M 1 C D :
	publ publ	ic class Employee { ic String name = " Duke"; ic int empId = 12105; ic float salary;	Mark for Review (1) Points

	lic void displaySalary(){ :em.out.println("Employee Salary: "+salary);
•	displaySalary() (*)
0	salary
0	name
0	empId
V	Correct

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Test: Java Foundations Midterm Exam		
Review your answers, feedback, and question scores below. An asterisk (*) indicates a cor	rect a	inswer.
Section 2 (Answer all questions in this section)6. There are several fields and methods in a Shirt class. Which of the following could be a method in the Shirt class?		Mark for Review (1) Points
C size		(1) FOILES
price		
C color		
getShirtSize() (*)		
✓ Correct		
7. Which of the following two features are supported by the NetBeans IDE.		Mark for Review (1) Points
(Choose all correct answers)		
▼ NetBeans provides a shortcut to format whitespace. (*)		
▼ NetBeans highlights matching braces. (*)		
Once NetBeans spots a problem, it won't allow you to continue coding until the progrblem is fixed.		
NetBeans automatically runs the program once all the braces in the code are matched.		
✓ Correct		
8. Which of the following are considered Whitespace?		Mark for Review (1) Points
(Choose all correct answers)		
▼ Blank lines in the code. (*)		
Space in the print statements.		

	V	Indentation before the code. (*)		
		Space between the [] braces.		
	V	Correct		
9.		eakpoint can be set by clicking a number in the left margin of the IDE. ing again removes the breakpoint.		Mark for Review (1) Points
	•	True (*)		()
	0	False		
	V	Correct		
Secti (Answ		I questions in this section)		
10.	Assi	gning a value to the variable is called "initialization".		Mark for Review (1) Points
	•	True (*)		
	0	False		
	V	Correct		
Previo	ous	Page 2 of 10 Next Summary		
Previo	ous	Page 2 of 10 Next Summary		
		,		
Test: J	lava	Foundations Midterm Exam	rrect a	answer.
Test: J	lava	,	rrect a	answer.
Test: J Review Secti	lava your	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a cor	rrect a	answer.
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Test: J Review Secti (Answ	your on 3 ver al	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a col I questions in this section) th of the following two statements are true about variables?	rrect a	
Test: J Review Secti (Answ	your on 3 ver al	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a cor I questions in this section) th of the following two statements are true about variables? sose all correct answers)	rrect a	Mark for Review
Test: J Review Secti (Answ	your on 3 ver al Whice	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a confidence of the following two statements are true about variables? The value assigned to a variable may never change.	rrect a	Mark for Review
Test: J Review Secti (Answ	your on 3 ver al	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a condition of the following two statements are true about variables? The value assigned to a variable may never change. The allow code to be edited more efficiently. (*)	rrect a	Mark for Review
Test: J Review Secti (Answ	von 3 ver al Whie	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a condition of the following two statements are true about variables? The value assigned to a variable may never change. The allow code to be edited more efficiently. (*) Variables will be ignored by compiler.	rrect a	Mark for Review
Test: J Review Secti (Answ	your on 3 ver al Whice (Chec	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a condition of the following two statements are true about variables? The value assigned to a variable may never change. The allow code to be edited more efficiently. (*)	rrect a	Mark for Review
Test: J Review Secti (Answ	von 3 ver al Whie	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a condition of the following two statements are true about variables? The value assigned to a variable may never change. The allow code to be edited more efficiently. (*) Variables will be ignored by compiler.	rrect a	Mark for Review
Test: J Review Secti (Answ 11.	von 3 ver al White	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a confidence of the following two statements are true about variables? The value assigned to a variable may never change. The allow code to be edited more efficiently. (*) Variables will be ignored by compiler. They make code becomes flexible. (*)	rrect a	Mark for Review (1) Points
Test: J Review Secti (Answ 11.	your on 3 ver al Whice (Chee I J Ider publint Sy	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a condition of the following two statements are true about variables? cose all correct answers) The value assigned to a variable may never change. The allow code to be edited more efficiently. (*) Variables will be ignored by compiler. They make code becomes flexible. (*)		Mark for Review
Test: J Review Secti (Answ 11.	Vava your on 3 ver al Whice (Chee Ider publipul interpublipul interpublipul	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a condition of the following two statements are true about variables? the value assigned to a variable may never change. The value assigned to a variable may never change. The allow code to be edited more efficiently. (*) Variables will be ignored by compiler. They make code becomes flexible. (*) Correct tify the variable declared in the given code. ic class Welcome { blic static void main(String args[]) { c a = 2;		Mark for Review (1) Points Mark for Review

	0	2	
	0	int	
	0	Welcome	
	V	Correct	
13.	A ch	aracter preceded by backslash is called an escape sequence.	Mark for Review (1) Points
	•	True (*)	
	0	False	
	V	Correct	
14.	An C	Object cannot have String objects as properties.	Mark for Review (1) Points
	0	True	
	•	False (*)	
	V	Correct	
15.	Give	n the expression:	Mark for Review
	Strin	g message = "Hello World";	(1) Points
	Whi	ch is the String Literal?	
	0	message	
	0	String message	
	•	Hello World (*)	
	0	String message = "Hello World";	
	V	Correct	
evic	ous	Page 3 of 10 Next Summary	

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.

Section 3

(Answer all questions in this section)

```
16. What is the output? public static void main(String args[]) {
                                                                                                               Mark for Review
      int x = 100;
                                                                                                                       (1) Points
      int y = x;
      y++;
      System.out.println("Value of x is " + x);
System.out.println("Value of y is " + y);
          Value of x is 0
           Value of y is 1
          Value of x is 100
           Value of y is 1
```

17.	Assuby 1	? cose all correct answers) $x = x + 1; (*)$ $x = +1;$ $x+;$	Mark for Review (1) Points
18.	Wha	x++; (*) x+=1; (*) Correct at is the range of the byte data type? -2^7 to 2^7-1 (*) -2^{15} to $2^{15}-1$ -2^{31} to $2^{31}-1$ -2^{63} to $2^{63}-1$	Mark for Review (1) Points
19.		Correct best-practice to close the Scanner stream when finished True (*) False	Mark for Review (1) Points
20.		Correct ch two statements are true about the Scanner class? cose all correct answers) A Scanner object opens a stream for collecting input. (*) Scanners cannot read text files. A Scanner's delimiter can be changed. (*) A Scanner object doesn't have fields and methods.	Mark for Review (1) Points
	V	Correct	

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Test: Java Foundations Midterm Exam

Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.

Secti (Answ		I questions in this section)		
21.	Thes	se two code fragments perform the same task.		M 1 C D :
	Strin int ir	agment 1 g inputString = JOptionPane.showInputDialog("??"); nput = Integer.parseInt(inputString); t++;		Mark for Review (1) Points
		agment 2 nput = Integer.parseInt(JOptionPane.showInputDialog("??")) + 1;		
	0	True (*)		
	•	False		
	Y	Incorrect. Refer to Section 3 Lesson 5.		
22		Java compiler automatically promotes byte, short, and chars data type values	_	
22.		t data type.		Mark for Review (1) Points
	•	True (*)		
	\circ	False		
	V	Correct		
23.		n the result of an expression is assigned to a temporary memory location, t is the size of memory allocated?		Mark for Review (1) Points
	(The size of the any data type used in the expression.		
	0	The size of the smallest data type used in the expression.		
	0	The size of the largest data type used in the expression. (*)		
	0	A default size is allocated.		
	_			
		Incorrect. Refer to Section 3 Lesson 4.		
24.	A sh	ort data type can be promoted to which of the following types?		Mark for Review (1) Points
	(Cho	ose all correct answers)		
	V	double (*)		
	V	long (*)		
	V	int (*)		
		boolean		
		byte		
	V	Correct		
Secti				
(Ansv	ver al	I questions in this section)		
25.	Strin	g objects are immutable.		Mark for Review

			(1) Points
True (*)			
False			
✓ Correct			

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Test: J	ava Foundations Midterm Exam		
Review	your answers, feedback, and question scores below. An asterisk (*) indicates a cor	rect a	nswer.
Section (Answ	on 4 er all questions in this section)		
26.	What is the output?		Mark for Review
	oublic static void main(String args[]) { String alphaNumeric = "Java World!" + 8; System.out.println(alphaNumeric); }		(1) Points
	◯ Java World! + 8		
	Java World! 8		
	Java World!8 (*)		
	Compilation error.		
	✓ Correct		
	The replaceFirst() method replaces only the first occurrence of matching character pattern in a string.		Mark for Review (1) Points
	True (*)		
	C False		
	✓ Correct		
28.	The indexOf() method returns the index value of a character in the string.		Mark for Review (1) Points
	• True (*)		
	C False		
	✓ Correct		
29.	What is the approximate value of PI?		Mark for Review (1) Points
	C 0		
	3.141 (*)		
	The value varies.		
	C 2.718		

	Correct	
30. Wh	at is the package name which contains Math class?	Mark for Review (1) Points
•	java.lang (*)	
0	java.io	
0	java.net	
0	java.awt	
	Correct	

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Test: Java Foundations Midterm Exam

Review you	r answers, feedback, and question scores below. An asterisk (*) indicates a co	rect a	inswer.
Section 4 (Answer a	Il questions in this section)		
31. Usir	ng the Random class requires an import statement.		Mark for Review (1) Points
•	True (*)		
0	False		
V	Correct		
32. Whi	ch class is used to generate random numbers?		Mark for Review (1) Points
0	Integer		
•	Random (*)		
0	Number		
0	Double		
(Correct		
	need to generate random integer values between 0 and 80 (inclusive). Which ement should you use?		Mark for Review (1) Points
0	nextInt(0-79);		
0	nextInt(80);		
0	nextInt();		
•	nextInt(81); (*)		
	Correct		
34. Whi	ch of the following two operations are appropriate for the main method?		Mark for Review (1) Points

(Cho	ose all correct answers)		
V	Creating instances of objects (*)		
	Calling local variables declared within a class's method		
V	Calling an instance object's field and methods. (*)		
	Assigning memory to the variables		
V	Correct		
with	information on the accountholder's name, balance, and interest rate. The		Mark for Review (1) Points
0	True		
•	False (*)		
V	Correct		
	You'n with best	 Calling local variables declared within a class's method ✓ Calling an instance object's field and methods. (*) Assigning memory to the variables ✓ Correct You're designing banking software and need to store 10000 customer accounts with information on the accountholder's name, balance, and interest rate. The best approach is store 30000 separate variables in the main method. True False (*) 	 ✓ Creating instances of objects (*) ☐ Calling local variables declared within a class's method ✓ Calling an instance object's field and methods. (*) ☐ Assigning memory to the variables ✓ Correct You're designing banking software and need to store 10000 customer accounts with information on the accountholder's name, balance, and interest rate. The best approach is store 30000 separate variables in the main method. ☐ True ☐ False (*)

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Re

eview	your	answers, feedback, and question scores below. An asterisk (*) indicates a co	rrect a	answer.
Section (Answ		questions in this section)		
36.	Metl	nods allow all instance of a class to share same behaviors.		Mark for Review (1) Points
	•	True (*)		
	0	False		
	V	Correct		
37.	How	many arguments does the following method accept?		Mark for Review
		ic void simpleInterest(double principal, int noofYears, double interestRate){ stem.out.println("The interest rate is " +interestRate);		(1) Points
	•	3 (*)		
	0	2		
	0	0		
	0	1		
	V	Correct		
38.	Whi	ch is a risk of using fully qualified class names when importing?		Mark for Review (1) Points
	\circ	Performance of the code is reduced.		
	•	Code readability is reduced. (*)		

	Ö	Memory usage is increased.		
	\circ	The compiler runs longer.		
	V	Correct		
39.	Whi	ch two are valid import statements of the Scanner class?		Mark for Review (1) Points
	(Ch	pose all correct answers)		()
	~	import java.util.Scanner; (*)		
		import java.*;		
		import java.util;		
	~	import java.util.*; (*)		
		Correct		
40.	The	import statement consists of two parts.	П	
	imp	ort package.className;		Mark for Review (1) Points
	One	is the package name and the other is the classname. True (*)		
	457	False		
	0			
	- [J	Correct		
Previ	ous	Page 8 of 10 Next Summary		
		·		
Test:	Java	Page 8 of 10 Next Summary Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co	rrect	answer.
Test:	Java / your	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co	rrect	answer.
Test: Review	Java / your	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co	rrect	answer.
Test: Review Sect (Ans)	Java / your ion 4 wer a	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co	rrect	answer. Mark for Review (1) Points
Test: Review Sect (Ans)	Java / your ion 4 wer a	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co		Mark for Review
Test: Review Sect (Answ	Java / your ion 4 wer a . The	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co questions in this section) classes of the Java class library are organized into packages.		Mark for Review
Test: Review Sect (Answ	Java / your ion 4 wer a . The	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co questions in this section) classes of the Java class library are organized into packages. True (*) False		Mark for Review
Test: Review Sect (Ans) 41.	Java / your ion 4 wer a . The	Foundations Midterm Exam Tanswers, feedback, and question scores below. An asterisk (*) indicates a confidence of the Java class library are organized into packages. True (*) False Correct		Mark for Review
Test: Review Sect (Answ 41.	Java / your ion 4 wer a . The	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co questions in this section) classes of the Java class library are organized into packages. True (*) False Correct I questions in this section)		Mark for Review
Test: Review Sect (Answ 41.	Java / your ion 4 wer a . The	Foundations Midterm Exam Tanswers, feedback, and question scores below. An asterisk (*) indicates a confidence of the Java class library are organized into packages. True (*) False Correct		Mark for Review
Test: Review Sect (Answ 41.	Java / your ion 4 wer a . The	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co questions in this section) classes of the Java class library are organized into packages. True (*) False Correct I questions in this section)		Mark for Review (1) Points Mark for Review
Test: Review Sect (Answ	Java / your ion 4 //wer a . The ion 5 //wer a . How	Foundations Midterm Exam Tanswers, feedback, and question scores below. An asterisk (*) indicates a confidence of the Java class library are organized into packages. True (*) False Correct I questions in this section) I should Strings be compared?		Mark for Review (1) Points Mark for Review
Test: Review Sect (Answ	Java / your ion 4 //wer a . The ion 5 //wer a . How	Foundations Midterm Exam answers, feedback, and question scores below. An asterisk (*) indicates a co I questions in this section) classes of the Java class library are organized into packages. True (*) False Correct I questions in this section) should Strings be compared? The equals() method (*)		Mark for Review (1) Points Mark for Review

	V	Correct		
43.	Whi	ch operator is used to test if both sides of a boolean expression are equal?		Mark for Review (1) Points
	(== (*)		
	Ö	>=		
	Ö	<=		
	0	=		
	(v	Correct		
44.		equal sign (=) is used to make an assignment, whereas the == sign merely ses a comparison and returns a boolean.		Mark for Review (1) Points
	\odot	True (*)		
	0	False		
		Correct		
45			_	
45.	VVIId	at is the output?		Mark for Review
	in if ; } if	lic static void main(String[] args) { t age = 43; (age == 43){ System.out.print("Bob is 43 "); (age == 50){ System.out.print("Bob is 50 ");		(1) Points
	Ö	Bob is 43 Bob is 50		
	Ö	No output		
	•	Bob is 43 (*)		
	0	Bob is 50		
	V	Correct		

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Review your answers, feedback, and question scores below. An asterisk (*) indicates a correct answer.

Section 5

(Answer all questions in this section)

46. In Java, an if statement can be nested inside another if statement.

Mark for Review (1) Points

- True (*)
- False

		Correct	
47.	In a boolean expression which uses the && operator, what would make this expression evaluate to true?		Mark for Review (1) Points
	bool	ean x = (firstCondition && secondCondition);	
	\circ	If both the first condition and second condition are false	
	•	If both the first condition and second condition are true (*)	
	0	If the first condition is false, but the second condition is true	
	0	If the first condition is true, but the second condition is false	
	V	Correct	
48.	Whi	ch two are not logical operators?	Mark for Review (1) Points
	(Cho	pose all correct answers)	
	✓	% (*)	
	V	+ (*)	
		&&	
		II	
		!	
	V	Correct	
49.	A br	eak statement causes control to transfer to the end of the switch statement.	Marila Care Davidson
			Mark for Review (1) Points
	(True (*)	
	0	False	
		Correct	
50.	Wha	at is the output?	Mark for Review
	ch sv	lic static void main(String args[]) { lar ch ='c'; vitch(ch) { lase 'a': lase 'e':	(1) Points
	(case 'i': case 'o': case 'u':	
		System.out.println("Vowels"); break; default: System.out.println("Consonants");	
	}		
	0	Compilation error	
	Ö	Vowels	
	•	Consonants (*)	
	0	Vowels	



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