Benha University
Faculty of Science

Subject : Selected Topics in Computer
Code : 355 mc
Time : 2 hours
Date : 5/1/2019
Examiner: Dr. Gamal Mosa

First Semester Level three

جامعة بنها – كلية العلوم – قسم الرياضيات

المستوى الثالث

يوم الامتحان: السبت 5 / 1 / 2019 م

المادة : موضوعات مختارة فى الحاسب (1) 355 رس

الممتحن: د . / جمال احمد موسى

مدرس بقسم الرياضيات بكلية العلوم

الامتحان+ نموذج إجابته

ورقة كاملة

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Answer the following questions: (80 marks)

1	**Which of the following is a valid identifier?**				
	A. $ 343	**B. class**	**C. 9X**	**D. r_radius**	
2	**The ………… keyword defines where this class lives relative to other classes.**				
	A. package	**B. import**	**C. class**	**D. Methods**	
3	**Which of the following are correct ways to declare variables?**				
	A. int length; int width,	**B. int length, width;**	**C. int length; width;**	**D. int length, int width;**	
4	**…………. are functions called during the creation of an object**				
	A. Methods	**B. Import**	**C. Constructors**	**D. Expressions**	
5	**To add number to sum, you write**				
	A. Number += sum;	**B. number = sum + number;**	**C. sum += Number;**	**D. sum = sum + number;**	
6	**Which of the following assignment statements is correct?**				
	A. int f =(float) 34;	**B. int t =(long) 23.25;**	**C. int t = (int)4.5;**	**D. int t = 4.5;**	
7	**To writ Multi-line Comment, we use …………….**				
	A. /*……….	**B. //……….//**	**C. /*……..*/**	**D. //………….**	
8	**Which of the following code displays the area of a circle if the radius (r) is not positive?**				
	A. if (r != 0) System.out.println(r*r* 3.14);		**B. if (r >= 0) System.out.println(r*r* 3.14);**		
	C. if (r > 0) System.out.println(r*r* 3.14);		**D. if (r <= 0) System.out.println(r*r* 3.14);**		
9	**……………. is the entry point of program execution**				
	A. statements	**B. main() method**	**C. Comment**	**D. block**	
10	**Analyze the following code:** boolean even = false; if (even = true) { System.out.println("It is even");}				
	A. The program has a compile error	**B. The program has a runtime error.**	**C. The program runs fine, but displays nothing**	**D. The program runs fine and displays It is even**	
11	**The -------------- method immediately terminates the program.**				
	A. System.terminate(0);	**B. System.exit(0);**	**C. System.quit(0);**	**D. System.stop(0);**	
12	**Which of the Boolean expressions below is incorrect?**				
	A. (true) && (3 >= 4)	**B. !(x > 0) && (x > 0)**	**C. (x != 0) || (x > 0)**	**D. (-10 < x)||(x = 10)**	
13	**Suppose x=10 and y=10 what is x after evaluating the expression** (y >= 10) && (x-- > 10).				
	A. 9	**B. 10**	**C. 11**	**D.**	

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14	What is y after the following statement is executed?			
	x = 5; y = (x % 2.0 >0) ? 10 : -10;			
	A. -10	B. 0	C. **10**	D. 20

15	Each variable can be declared ………….. time.			
	A. non	B. **one**	C. two	D. more

16	Is the following loop correct?			
	for (; ;);			
	A. **yas**	B. no	C.	D.

17	The ………… of a variable can be changed inside the program.			
	A. value	B. **type**	C. number	D. name

18	What is the value of count after the following code?			
	int count = 1;			
	while (count++ < 10) { System.out.println("Welcome to Java")}			
	A. 8	B. 9	C. 10	D. **11**

19	How many times will the following code print "Welcome to Java؟"			
	int count = 1;			
	while (++count < 10) { System.out.println("Welcome to Java")}			
	A. **8**	B. 9	C. 10	D. 11

20	How many times is the println statement executed?			
	for (int i = 0; i < 10; i++) for (int j = 0; j < i; j++) System.out.println(i * j)			
	A. 100	B. 20	C. 10	D. **45**

21	Suppose your method does not return any value, which of the following keywords can be used as a return type?			
	A. int	B. **void**	C. public	D. None of them

22	……………… type uses 8 bits to store data.			
	A. **A byte**	B. A float	C. A long	D. An int

23	The signature of a method consists of ------------------ .			
	A. method name	B. name and parameter list	C. **return type, method name, and parameter list**	D. parameter list

24	All Java applications must have a method ------------- .			
	A.public static main(String[] args)	B.public static Main(String args[])	C.**public static void main(String[] args)**	D.public void main(String args[])

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25	When you invoke a method with a parameter, the value of the argument is passed to the parameter. This is referred to as -----------				
	A. method invocation	B. **pass by value**	C. pass by reference	D. pass by name

26	int j = 0; int i = j * ++ j * 5; System.out.println("i= " + i);				
	A. **printout i= 0**	B. printout i= 1	C. printout i= 5	D. non

27	A variable defined inside a method is referred to as ------------- .				
	A. a global variable	B. a method variable	C. a block variable	D. **a local variable**

28	Which of the following is an impossible output from invoking Math.random()?				
	A. **3.43**	B. 0.5	C. 0.0	D. 0.123

29	Which of the following is correct?				
	A. **int[] a = new int[2];**	B. int[] a = new int(2);	C. int a = new int[2];	D. int a() = new int[2];

30	Suppose int i = 5, which of the following can be used as an index for array double[] t = new double[100]?				
	A. t[Math.random() * 100]	B. t[i+100]	C. **t[(int)(Math.random() * 100))]**	D. t[i+6.5]

31	Which of the following statements is invalid?				
	A. **int i []= new int(30);**	B. double d[] = new double[30];	C. int[] i = {3, 4, 3, 2};	D. char[] c = new char[30];

32	The -------------- method sorts the array scores of the double[] type.		
	A. java.util.Arrays(scores)		B. java.util.Arrays.sorts(scores)
	C. **java.util.Arrays.sort(scores)**		D. java.util.sortArray(scores)

33	A …………. is a specific constant value				
	A. class	B. **literal**	C. method	D. Constructors

34	Which of the following statements is correct?				
	A. char[][] A = {'a', 'b'};	B. char[2][2] A = {{'a', 'b'}, {'c', 'd'}};	C. char[2][] A = {{'a', 'b'}, {'c', 'd'}};	D. **char[][] A = {{'a', 'b'}, {'c', 'd'}};**

35	When you return an array from a method, the method returns…………….			
	A. a copy of the array	B. the length of the array	C. **the reference of the array**	

36	Which of the following statements is preferred to create a string "Welcome to Java"?				
	A. String s; s = String ("Welcome to Java");	B. String s; s = "Welcome to Java";	C. String s = new String ("Welcome to Java");	D. **String s = "Welcome to Java";**

37	You can declare a variable anywhere inside the program, as long as it is declared before it is being used.		
	A. **true**	B. false	

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38	Suppose s1 and s2 are two strings. Which of the following statements or expressions is correct?			
	A. String s3 = s1 + s2	B. s1 >= s2	C. int i = s1.length	D. s1.charAt(0) = '5'
39	Which class do you use to write data into a text file?			
	A. Print.Writer	B. Scanner.File( )	C. **Filename.format( )**	D. System. PrintWriter( )
40	Which class do you use to read data from a text file?			
	A. **Scanner**	B. PrintWriter	C. File	D. System
41	Which of the following is the language for Mobile?			
	A. Java ME	B. Java SE	C. **Java language**	D. Java FX
42	a default value of Boolean type is			
	A. true	B. **false**	C.	D.
43	Which of the following is correct Integer Literals?			
	A. Int s=-123	B. Int s=1,560	C. Int s=007	D. Int s=147$
44	Which of the following is incorrect Character Literals?			
	A. char letter = '102'	B. **char letter = "k"**	C. char letter = 102	D. char letter = '97'
45	The escape sequence which mean Single-quote is			
	A. \"	B. **\'**	C. \\'	D. \s
46	If a number is too small to be stored in a variable of the int type, it -------------			
	A. causes overflow	B. **causes underflow**	C. causes no error	D. cannot happen in Java
47	What is y after the following statement is executed? y = (5/3 > 1) ? 10 : -10;			
	A. -10	B. 0	C. 10	D. 20

48	What is sum after the following loop terminates?
	 int sum = 0, item = 0;
	 do { item++; sum += item; if (sum > 4) break; } while (item < 5);			

	A. 5	B. **6**	C. 7	D. 8