Highlight your answers, only one selection for multiple choice. Multiple choice questions are worth 10 points, unless grouped with True/False questions (the true/false questions are worth 2 points each)

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1a: Which of the following is not a GUI component (control or widget)? (4pts)
a. String.
b. Button.
c. Menu.
d. Combo box.
1b: Which component contains menus? (4pts)
a. Menu button.
b. Title bar.
<mark>c. Menu bar.</mark>
d. Combo box.
1c: True or False: Together, the appearance and the way in which the user interacts with the application
are known as that application's look-and-feel.
2a. Which of the following properly create and initialize a Font object? (5 points)
A. Font f = new Font();
B. Font f = new Font("Serif", Font.Bold + Font.Italic, 19);
C. Font f = new Font(Font.Bold, 20, "SansSerif");
D. Font f = new Font(20, Font.Bold, "Monospaced");
2b: Method getFont of class Graphics returns (5 points)

- a. the current font name as a string
- b. the font size in points
- c. a Graphics object representing the current font
- d. a Font object representing the current font

I. a string. II. 'a string'. <mark>III. "a string".</mark>	- dont know what is ment hear - Char
<mark>IV. "1234".</mark> V. integer.	- dont know what is ment hear
Which could be a. I and II. b. II and V. c. II and III. d. III and IV.	e the value of a Java variable of type String? (4 points)
a. the string da b. the string da	cts can be used in place of String objects if (4 points) ta is not constant ta size may grow s frequently perform string concatenation ove.
3c: True or False: A reg	ular expression can be used for pattern matching.
4a: True or False: A pa	rallel path starts from the directory in which the application began executing.
4b: True or False: The without any location in	Path class method <i>getFileName</i> returns the String name of a file or directory formation.
4c: What does the follo	owing statement do? (6 points)
Scanner scan	ner = new Scanner(Paths.get("test.txt"));
b. Opens a bina <mark>c. Opens a text</mark>	ary file for input. ary file for output. file for input. file for output.
5a: JSliders generate w a. ActionEvents b. ChangeEven c. WindowEven d. MouseEvent	ts.
5b: True or False: JFran	ne is a lightweight component.
5c: True or False: A JFra	ame window will look like all other windows displayed on that platform.
5d: True or False: JSlide	ers generate <u>ChangeEvent</u> type of events.

3a: Consider the examples below:

6a: It's recommended that you do not explicitly create and use Thread objects to implement concurrency, but rather use the interface. (5 points) a. ExecutorService b. Runnable c. Concurrent d. Executor
6b: The preferred means of creating multithreaded Java applications is by implementing the interface. An object of a class that implements this interface represents a task to perform. (5 points) a. Thread b. Runner c. Runnable d. None of the above Executor?
7a: True or False: When a synchronized method or block is running on an object, the object is locked so no other such method can run on that object at the same time.
7b: True or False: The preferred means of creating multithreaded Java applications is by implementing the <i>Runnable</i> interface. An object of a class that implements this interface represents a task to perform
7c: True or False: Thread priorities guarantee the order in which threads execute.
7d: True or False: A runnable thread enters the terminated state (sometimes called the dead state) when it successfully completes its task or otherwise terminates (perhaps due to an error).
7e: True or False: A new thread begins its life cycle by transitioning to the runnable state. SECTION 23.2 says:
Section 23.2 Thread States and Life Cycle • A new thread begins its life cycle in the new state (p. 961). When the program starts the thread, it's placed in the runnable state. A thread in the runnable state is considered to be executing its task.
It then transitions to the runnable state. I Know it starts in the new state(Step 1), but then transitions into runnable(Step 2). I feel this question is a bit confusing.
8a: The default sort order in a sorted query is a. ascending b. descending c. natural d. None of the above
8b: True or False: Selection criteria can be added to a SQL query using the WHERE keyword.
8c: True or False: The relationship between a primary key and its corresponding foreign keys is called the <i>one-to-many</i> relationship.
8d: True or False: A foreign key is a column (or set of columns) which have a unique value that cannot be duplicated in other rows.

9a: Which symbol indicates	that all columns should	I be retrieved? (5 points)
a. ?		

- b. *
- c. +
- d. /

9b: Which symbol in a JDBC prepareStatement indicates query parameters? (5 points)

- a. ?- the question Mark
- b. *
- c. +
- d. /
- 10. Suppose we have a database for a veterinarian clinic. Assuming we have a table named Pets, with the fields: PetName, PetType (with values of "Cat", "Dog", "Iguana"), PetAge, and NewPatient (with values of True or False), write a database query that will query for all Cats that are not new patients, with PetName sorted in ascending order. (10 points)

database query that will: query for all Cats that are not new patients with PetName sorted in ascending order

PetName (PetType= Cats and NewPatient=false)
PetType if (PetType= Cats and NewPatient=false)
PetAge if (PetType= Cats and NewPatient=false)

Query:

"SELECT PetName, PetType, PetAge, NewPatient FROM Pets \n" + "WHERE Pets.PetName="Cat" + "WHERE Pets.NewPatient =false + ORDER BY PetName ASC";