Test your “Basic” understanding of LabVIEW concepts by attempting the LabVIEW Basics Test. This test is recommended after you complete the seven modules found in the LabVIEW Basics section. The test includes 20 multiple choice questions.

1. Numeric controls are different from numeric indicators because they have a ___________ background and ___________.
   a. White, Labels
   b. Grey, Labels
   c. White, Increment/Decrement Buttons
   d. Grey, Increment/Decrement Buttons

2. To switch between the front panel and block diagram, select Window >> Show Block Diagram/Front Panel, or simply press ____________.
   a. Ctrl-E
   b. Ctrl-Z
   c. Ctrl-Shift-Y
   d. Ctrl-B

3. The __________ function, which allows you to find functions and controls to which you do not know the navigation path, is located on the __________ palette.
   a. [Image: Customize] Functions
   b. [Image: Search] Controls
   c. [Image: Customize] Functions and Controls
   d. [Image: Search] Functions and Controls
   e. [Image: Search] Functions

4. To copy an item on the front panel or block diagram, press <Ctrl-C> and then <Ctrl-V>, or simply hold __________ and click and drag and drop the item.
   a. Shift
   b. Alt
   c. Ctrl-Shift
   d. Ctrl
5. What is the correct order of execution of this code?

- Square Root, Add, Square Functions in Parallel
- Add, Square Root, Square Functions in Parallel
- Square Functions in Parallel, Add, Square Root

6. When placing a new function, control, indicator, or constant, the __________ feature wires the terminals together if placed within close enough proximity.
- Block Diagram Cleanup
- Automatic Error Handling
- Automatic Wiring
- Retain Wire Values

7. The __________ chooses the best tool based on where the mouse pointer is placed in the LabVIEW environment.
- Wiring Tool
- General Tool
- Automatic Tool Selector
- Operate Tool

8. The __________ is typically used during run time to change the value of a control.
- Operate Tool
- Automatic Tool Selector
- Select Tool
- Shortcut Menu Tool

9. __________ any object in the LabVIEW environment provides quick access to most of the properties that can be changed.
- Left-Clicking
- Right-Clicking
- Selecting
- Ctrl-Clicking

10. To find a quick description of an object in the LabVIEW environment, simply turn on __________ by pressing __________ and hovering over the object.
- Detailed Help, Ctrl-I
- Context Help, Ctrl-U
- Context Help, Ctrl-H
- LabVIEW Help, Ctrl-Z
11. A __________ indicates that the VI is *broken* or not executable.
   a. Broken Run Arrow
   b. Run Arrow
   c. Wiring Diagram
   d. VI Icon

12. If you are not getting the expected values from your VI, two good troubleshooting steps are ____________ and ____________, which show wire values during run time and slow down execution, respectively.
   a. List Errors, Highlight Execution
   b. Probing Wires, Using Breakpoints
   c. Probing Wires, Highlight Execution
   d. Single stepping, Using Breakpoints

13. Being able to store a list of items in both a string and integer format allows for intuitive programming and a user friendly interface. This is made possible with the ____________ data type.
   a. Enum
   b. String
   c. Integer
   d. Cluster

14. The ____________ data structure can be compared to a purse or wallet because a purse or wallet can hold many different things just as this data structure can hold multiple data types.
   a. Array
   b. Cluster
   c. Bundle
   d. Container

15. For Loops have auto-index output tunnels, which automatically create ____________ of data at the tunnel.
   a. Arrays
   b. Containers
   c. Graphs
   d. Clusters

16. Being able to execute code based on a particular condition allows for logic to be built into a program. In LabVIEW, this is accomplished using a ____________.
   a. While Loop
   b. For Loop
   c. Case Structure
   d. Event Structure
17. A ________ allows a VI to run until a certain condition is met, such as pressing a Stop button on the front panel.
   a. While Loop
   b. For Loop
   c. Case Structure
   d. Event Structure

18. A For Loop is different from a While Loop because it runs for a set number of iterations and does not require a _________. The number of iterations is set by the _________.
   a. Input Tunnel, Count Terminal
   b. Conditional Terminal, Count Terminal
   c. Conditional Terminal, Iteration Terminal
   d. Input Tunnel, Count Terminal

19. To open a prebuilt VI to serve as a starting point or as a point of reference, open ________ and browse or search for the appropriate VI.
   a. LabVIEW Detailed Help
   b. NI Example Finder
   c. LabVIEW Context Help
   d. KnowledgeBase Archive

20. Use ________ within the LabVIEW environment to see a quick description of any object on the block diagram or front panel.
   a. NI Example Finder
   b. LabVIEW Manual
   c. LabVIEW Context Help
   d. LabVIEW Detailed Help