12. Which of the following is example(s) of non-functional requirement?

The software must be developed using agile methodology.

a. The software must be able to generate monthly reports on user activity. The software must be able to handle 1000 users simultaneously.

d. The software must be compatible with Microsoft Office.

Consider the usability definition proposed by Nielsen. Answer the following. 2+1+2=5

a. The "effectiveness" measure of usability defined by ISO is the same as the "efficiency" measure proposed by Nielsen. (true/false)

Utility measure is part of usability measure. (true/false) F

The measures of learnability, memorability and errors proposed by Nielsen are already part of the "efficiency" measure of usability as defined by ISO. (true/false)

14. Consider the eight golden rules of interface design by Ben Shneiderman. Answer the following. 2+3+1=6

- We are designing a GUI with two windows. Both can be closed with a "close" button having the color GREEN. The design violates the golden rule "strive for consistency". (true/false)
- In a hierarchical drop-down menu-based interface, there are 12 menu items at the top level, each with a name that clearly explains the task supported by the menu item (e.g., a menu item with the name "save" to indicate that the item can be used to save work). The design violates the guideline "reduce short term memory load". (true/false)
- The guideline "offer informative feedback" implies that a good interface should go through perceptible changes after each and every user action on the interface. (true/false)

15. Consider the model of interaction by Norman. Answer the following. 1+2+2=5

- .a. The execution stage contains three mental actions and one motor action. (true/false) T
- せ. All the actions in the evaluation stage are motor actions. (true/false) ド
- Gulf of execution happens due to mismatch between our mental actions and the interface design. (true/false) T

You are approached by a company dealing with sports goods. The company wants to automate their activities. As part of that, they wish to have a software to manage their inventory. The software should be able to help the company in performing the following.

- a. Record the arrival of new items.
- b. Keep track of the items that are getting sold.
- c. Search for availability of items.
- d. Prepare inventory status report.

In view of the above requirements, create a <u>functional hierarchy</u> for the software (with clearly defined input and output for each function).

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