**ASSIGNMENT-3**

**Q1. what is difference between validation and verification?**

**Ans**

|  |  |
| --- | --- |
| **Verification** | **Validation** |
| Are we building the system right? | Are we building the right system? |
| **Verification** is the process of evaluating products of a development phase to find out whether they meet the specified requirements. | **Validation** is the process of evaluating software at the end of the development process to determine whether software meets the customer expectations and requirements. |
| The objective of Verification is to make sure that the product being develop is as per the requirements and design specifications. | The objective of Validation is to make sure that the product actually meet up the user’s requirements, and check whether the specifications were correct in the first place. |
| Following activities are involved in **Verification**: Reviews, Meetings and Inspections. | Following activities are involved in **Validation**: Testing like black box testing, white box testing, gray box testing etc. |
| **Verification** is carried out by QA team to check whether implementation software is as per specification document or not. | **Validation** is carried out by testing team. |
| Execution of code is not comes under **Verification**. | Execution of code is comes under **Validation**. |
| **Verification** process explains whether the outputs are according to inputs or not. | **Validation** process describes whether the software is accepted by the user or not. |
| **Verification** is carried out before the Validation. | **Validation** activity is carried out just after the Verification. |
| Following items are evaluated during **Verification**: Plans, Requirement Specifications, Design Specifications, Code, Test Cases etc, | Following item is evaluated during **Validation**: Actual product or Software under test. |
| Cost of errors caught in **Verification** is less than errors found in Validation. | Cost of errors caught in **Validation** is more than errors found in Verification. |
| It is basically manually checking the of documents and files like requirement specifications etc. | It is basically checking of developed program based on the requirement specifications documents & files. |

**Q2. what is difference between quality and testing?**

**Ans-** I would say it's best described that testing is a subset of QA.

Your goal of **testing** is to ensure the functional **requirements** and **metrics** are met. This could be computational performance, clicks-per-action, user throughput, feature-completeness, defect rate, etc.

**Quality-Assurance** is a broader-reaching goal that simply asks "Is the **customer** going to be **happy** with this?" Obviously, you need to meet the metrics and requirements detailed in testing in order to achieve this. But there's a certain emotional aspect that testing can't cover. Is it pretty? Is it innovative? Does it get the job done? (It can meet every requirement and still not get the job done!)

This is simply interpretation of these two concepts. It may differ from those in the SQA community, and may differ from the majority opinion.

**Q3.** Quality improvement programs may require the product itself to be changed.

a. True

b. False

Q4. The basis upon which adherence to policies is measured is

a. Standard

b. Requirement

c. Expected result

d. Value

e. All of the above

f. None of the above

Ans. False

Q5. During an inspection, inspectors normally make suggestions on correcting the defects found.

a. True

b. False

Ans. False

Q6.The term “benchmarking” means

a. Comparing with past data from your organization

b. Comparing with the results of a market survey

c. Comparing with the results of a customer survey

d. None of the above

Ans. None of the above

Q7. The concept of continuous improvement as applied to quality means:

a Employees will continue to get better

c. Processes will be improved through a few large improvements

d. Improved technology will be added to the process, such as acquiring CASE tools

e. The functionality of the products will be enhance.

Ans. b. Processes will be improved by a lot of small improvements

Q8. The following can be considered to measure quality:

a. Customer satisfaction

b. Defects

c. Rework

d. All of the above

e. None of the above

Ans. All of the above

Q9. Quality assurance is a function responsible for

a. Controlling quality

b. Managing quality

c. Inspections

d. Removal of defects

Ans. Managing quality