Jawaban uas sqa 2019

1.

***Advantages of prototyping:***

■ Shorter development process

■ Substantial savings of development resources (man-days)

■ Better fit to customer requirements and reduced risk of project failure

■ Easier and faster user comprehension of the new system

***Disadvantages of prototyping:***

■ Diminished flexibility and adaptability to changes and additions

■ Reduced preparation for unexpected instances of failure

2. ■ **“Verification** – The process of evaluating a system or component to determine

whether the products of a given development phase satisfy the

conditions imposed at the start of that phase.”

■ **“Validation** – The process of evaluating a system or component during or

at the end of the development process to determine whether it satisfies

specified requirements.”

■ **“Qualification** – The process used to determine whether a system or component

is suitable for operational use.”

3. first is the authority is DR the team leader will assume the position of leader

Second is the goal DR main goal is to see if the project can continue to the next goal but peer review main goal is to find fault and defects.

4. Software testing is a ***formal*** process carried out by a ***specialized testing team***

in which a software unit, several integrated software units or an entire

software package are examined by ***running the programs on a computer***. All

the associated tests are performed according to ***approved test procedures*** on

***approved test cases****.*

5. ***Direct objectives***

■ To identify and reveal as many errors as possible in the tested software.

■ To bring the tested software, after correction of the identified errors and

retesting, to an acceptable level of quality.

■ To perform the required tests efficiently and effectively, within budgetary

and scheduling limitations.

***Indirect objective***

■ To compile a record of software errors for use in error prevention (by

corrective and preventive actions).

6. Stubs are dummy modules that replace lover level modules they are used in top down approach

Drivers are dummy modules that represent higher modules that are used in a bottom up approach

7. ***Black box testing:***

(1) Testing that ignores the internal mechanism of a system or component and

focuses solely on the outputs generated in response to selected inputs

and execution conditions.

(2) Testing conducted to evaluate the compliance of a system or component

with specified functional requirements.

***White box testing:***

Testing that takes into account the internal mechanism of a system or component.

8. 4

9. What to test?

■ Which sources to use for test cases?

■ Who is to perform the tests?

■ Where to perform the tests?

■ When to terminate the tests?

10 advantages

**Accuracy and completeness of performance.**

**Accuracy of results log and summary reports.**

**Comprehensiveness of information.**

**Few manpower resources required to perform tests.**

**Shorter duration of testing.**

**Performance of complete regression tests.**

**Performance of test classes beyond the scope of manual testing.**

**Disadvantages**

**High investments required in package purchasing and training.**

**High package development investment costs.**

**High manpower requirements for test preparation.**

**Considerable testing areas left uncovered.**

**11. Alpha is usually done at the developer site but beta is usually done at the client or out site the developer**

**12**

**Corrective maintenance**

**Adaptive maintenance**

**Functionality improvement maintenance**