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**This test is for Intern QA Engineers only (Part I and II - 90 mins).**

**Part I**

**1.    What is a Bug?**  
a)    It is a developer’s error  
b)    It is a tester’s error  
c)    It is any kind of error, mistake, or failure in software code that prevents the software function from executing properly.   
d)    None of the above

**2. What is the difference between severity and priority?**

a)    Priority is how difficult the issue is to fix. Severity is how important the issue is to fix.

b) Severity is the degree of impact that a defect has on the operation. Priority is the level of business importance assigned to an item.  
c)    Severity is always added by QAs. Priority is always added by customers.    
d)    None of the above

**3. When should QA start?**

a)    QA should begin as soon as possible in the life cycle

b) It should be planned as soon as possible but can execute later in the cycle  
c)    Need to wait until dev completes all the features    
d)    Cannot say anything

**4. What is the QA life cycle?**

a)    Requirements, Test Planning, Analysis, Test Design, Execution, Reporting, Closure

b) Requirements, Analysis, Test Design, Test Planning, Execution, Reporting, Closure  
c)    Requirements, Analysis, Test Planning, Execution, Test Design, Reporting, Closure  
d)    Requirements, Analysis, Test Planning, Test Design, Execution, Reporting, Closure

**5. Testing is applicable throughout the**

a)    Design

b) Development   
c)    Maintenance   
d)    All are true

**6.    Which of the following requirements is testable?**  
a)    The system shall be user-friendly.  
b)    The safety-critical parts of the system shall contain 0 faults.  
c)    The response time shall be less than one second for the specified design load.  
d)    The system shall be built to be portable.

**7.    Which of the following is a form of functional testing?**  
a)    Boundary value analysis  
b)    Usability testing  
c)    Performance testing  
d)    Security testing

**8.    What is true in Quality Assurance (QA) and Quality Control (QC)?**  
a)    We should do QC first and the QA   
b)    QA is proactive and QC is reactive  
c)    QA cost is high than QC  
d)    All are true

**9.    What are the typical tests done by QAs?**  
a)    Unit Testing, Integration testing and Functional testing   
b)    Integration testing, Functional testing and Regression testing  
c)    Functional testing, Regression testing and System testing  
d)    All are true

**10.   What is true regarding functional and non-functional testing**  
a)    Nonfunctional testing is not a crucial aspect of the software

b)    Testers are doing functional testing and developers are doing nonfunction testing  
c)    Regression testing is a non-functional testing type  
d)    Performance testing is a non-functional testing type

**11. Quality also can be looked at in terms of user satisfaction which includes**

a) A compliant product

b) Good quality output

c) Delivery within budget and schedule

d) All of the mentioned

**12. Which of the following term describes testing?**

a) Finding broken code

b) Evaluating deliverables to find errors

c) A stage of all projects

d) None of the mentioned

**13. The testing in which code is checked**

a) White box testing

b) Black box testing

c) Red box testing

d) Gray box testing

**14. Which of the testing is often employed as a form of internal acceptance testing?**

a) System Testing

b) Agile Testing

c) Alpha Testing

d) Beta Testing

**15. What does test automation improve?**

a) Software quality

b) Time to market

c) Early feedback

d) All of the above

**Part II**

**1. Define OOP concepts and provide a code-level example for one of those.**

* **Encapsulation:wrapup or protect data.**

**eg-capsule**

* **Inheritance:inherit attribute and methods from one class to another class.**

**eg-father and son(like Jackson and family)**

* **polymophisam:two types,**

**Run time polymorphism mean method over ridding and Compile time polymophisam mean method over loading**

* **Abstract:**

**eg-laptop,smart phone**

**Inheritance**

**class animal{**

**public void eat{**

**System.out.println{“animal eat food};**

**}**

**}**

**class dog extends animal{**

**public void bark() {**

**System.out.println(“dog barks);**

**}**

**}**

**public class main{**

**public.static void main(string[] args){**

**dog myDog=new dog();**

**myDog.eat();**

**myDog.bark();**

**}**

**}**

**Dog obj=new Dog();**

**obj.eat();**

**obj.bark();**

**2. Write a program to find the count for the occurrence of a particular character in a string.**

**public class characterCount{**

**public static void main(String[] args)**

**Scanner x=new Scanner(System.in);**

**System.out.print(“enter character to shearch”);**

**char searchChar=x.next().charAt(0);**

**int count=0;**

**for(int i=0;i<inputString.lenth();i++){**

**if(inputString.charAt(i)==searchChar){**

**count++;**

**}**

**}**

**System.out.print(“character ‘%c’ occurs %d times %n,searchChar,count);**

**}**

**}**

**3. Write a program for a calculator where the user passes two numbers to the program and performs and prints Addition, Subtraction, and Multiplication.**

**public class calculator{**

**public static void main(String[] args){**

**Scanner scanner = new Scanner(System.in);**

**System.out.println(“enter first number”);**

**double num1=Scanner.nextDouble();**

**System.out.println(“enter second number”);**

**double num2=Scanner.nextDouble();**

**double a=num1+num2;**

**System.out.println(“addition:”+num1+”+”+num2+”=”+a;**

**double b=num1-num2;**

**System.out.println(“subtraction:”+num1+”-”+num2+”=”+b;**

**double c=num1\*num2;**

**System.out.println(“multipication:”+num1+”\*”+num2+”=”+c;**

**}**

**4. Write a program to print the following star pattern**

\*

\*\*

\*\*\*

\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*\*

**public static void main(String[] args){**

**int rows=6;**

**for(int i=1;i<=rows;i++){**

**for(int j=1;j<=I;j++){**

**System.out.print(“\*”);**

**}**

**System.out.print();**

**}**

**}**

**}**

**5. Write a program to automate the following using the selenium web driver (10 Minutes)?**

* Navigate to “create your Gmail account”
* Fill all the required fields with an incorrect password to confirm
* Assert the error message

**public class void main(String[] args){**

**System.setProperty(“webdriver.chrome.driver”,”chromedriver.exe”);**

**webDriver driver=new chromeDriver();**

**driver.get(“https//accounts.google.com/singup”);**

**webElement firstName=driver.findElement(By.name(“**