**Java Skill Based Questions**

**Max Marks: 100**

1. Write a program to read a string and validate PAN no. against following

rules: **(15 Marks)**

1. There must be eight characters.

2. First three letters must be alphabets followed by four digit number

and ends with alphabet

3. All alphabets should be in capital case.

1. Create user defined exceptions called InvalidAgeException and InsufficientAgeException, which has to be thrown when user enters a negative age and if user enters age less than 18 then it has to throw InSufficientAgeException , else has to show eligible for voting. **(15 Marks)**
2. Write a java program to read student objects in a ArrayList and display the student result based on the condition that max>=80, distinction, between 60 and 79 as First class, between 50 and 50 as Second class, else fail, and display only students who are passed. **(25 Marks)**

Note; Test the pass condition by using Java8 Predicate, find the class by using Function and display the results using Consumer predefined interfaces.

1. Write a JDBC program to validate the given user credentials, from database

**(25 Marks)**

1. Write a Servlet Program to accept a employee id and display the corresponding information in the following format to the client. **(25 Marks)**

Employee Information

|  |  |
| --- | --- |
| Employee Id | SG1001 |
| EmployeeName | Praveen Kumar |
| Department | Devlopment |
| Designation | Developer |
| Mobile | 997854213 |
| Email | Xyz@gmail.com |

**Note:** For questions 4 and 5 first create tables Users(uid,pwd) and Employee(id,name,dept,desg,mobile,email) respectively and populate some records.