Indian Institute of Technology, Jodhpur

Syllabus for the post of Software Engineer (Post Code 4751)

Written Test (60 Marks) and Skill Test (40 Marks)

1. Concepts of Object Oriented Programming

    a. Encapsulation
    b. Class, object
    c. Inheritance
    d. Polymorphism
    e. Understanding UML Diagrams

2. Java Programming

    a. Condition, Loop, Function, Class, Package
    b. String, Array, Collection, Iterator
    c. Exception Handling, Abstract Class, Interface, Polymorphism
    d. I/O operations, Streams, File handling
    e. Database Connectivity
    f. SQL Query and Stored Procedure Call

3. Java Web Application Development

    a. Java EE
    b. JVM and Java Web Framework
    c. Java Server Pages
    d. Spring Framework
    e. Application Server (tomcat)
    f. REST API

4. Frontend Technologies
    a. HTML, XML, CSS, JavaScript
    b. JQuery, Bootstrap, AJAX

5. IDE
    a. Netbeans
    b. Eclipse

6. SQL Query
    a. Insert, Update, Delete
    b. Stored Procedures, View, Function
    c. Joining, Group By

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