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| Arid Agriculture University Rawalpindi | Rawalpindi | **Pir Mehr Ali Shah Arid Agriculture University Rawalpindi**  **University Institute of Information Technology** |

**Assignment**

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| **Course Code** | CS-432 |
| **Course Title** | Modern Programming Languages |
| **Instructor’s Name** | Dr. Saif Ur Rehman |
| **Class/Section/Mor/Eve** | BSCS-5A Evening |
| **Assignment No** | 05 |
| **Due Date** | 22 December 2023 |

**Exercise Question No. 1**

(a)Write complete procedure to connect SQL Server to Java

(b) What classes are used to connect Java to SQL Server Database

(c) why Statement Class is used? what are its various constructor

(d) Why Connection Class is used? what is the syntax to create a connection

(e) Why executeUpdate() is used

(f) How exception handling is performed while working with database in Java?

**Exercise Question No. 2**

Do as Directed

1. Concurrency is one of the most important concept of Operating System, which Java programming construct support you will use to implement Concurrency.
2. Compare JSP, ASP.Net and PHP. You have studied all these, which one is interesting and useful for web Services or web application. Justify your answers
3. Write single line JAVA statement to define a Sub package named **MCSStudents** in the main Package **UIITStudent**
4. Write JAVA statement to implement all the classes of UIITStudents and sub package MCSStudents in class **UIIT.**
5. What are the two methods for creating Threads in Java?
6. Differentiate between the two JAVA keywords **extends** and **implements**
7. Differentiate between the two JAVA string handling mechanism the **String** and **StringBuffer** Class
8. Write a catch statement code to show the description of any Exception occur in java code.
9. What is the usage of finally clause in Java Exception handling? Give examples