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| **Annotations JavaBeans** | | |
| 1 | What is a package in java? Mention its advantages. | Yt |
| 2 | How is a package created? Give an example. | 5 |
| 3 | Define Java annotation. When are they used? | 5 |
| 4 | Describe the working of built-in annotations in java. | 10 |
| 5 | How are jar files created and used? List options of jar files. | 8 |
| 6 | Write a short notes on   * 1. @Documented   2. @Target annotation   3. Custom annotation   4. @Retention   5. @Inherited | 5 each |
| 7 | What is Bean? Distinguish JavaBean and Java Class. | 5 |
| 8 | Define java bean and state its advantages. Explain the features of java bean. | 8 |
| 9 | Mention the purpose of introspection in java. | 4 |
| 10 | How are customizer and persistence associated with property editors? | 6 |
| 11 | Why are the property editors used? | 3 |
| **JDBC** | | |
|  | Explain the JDBC Architecture. | 05 |
|  | How does the JDBC application work? | 05 |
|  | Explain the various types of JDBC drivers. | 10 |
|  | Explain the JDBC process steps in detail. | 10 |
|  | Explain the types of statement objects in JDBC with an example. | 10 |
|  | Briefly describe the situations where you should use prepared statement. | 04 |
|  | Write a JDBC program to select columns from an employee table using statement object. [Create object to Statement class and use executeQuery method] | 10 |
|  | Explain with the help of a simple program, how to use a prepared statement to process the result of “SELECT - - - - - - - ” SQL query. | 10 |
|  | When we use executeQuery(), executeUpdate(), executeBatch() methods? | 8 |
|  | Write a short notes on:   * Data types in SQL * SQL 3 data types * ResultSet * Statement Object * PreparedStatment Object * CallableStatment Object | each 5 |
| **Enterprises Java Beans** | | |
|  | What are the different types of enterprise java beans? Explain. | 10 |
|  | Types of session bean |  |
|  | What are the types of Message Driven Bean? |  |
|  | Read each types of EJB. |  |
|  | Design an EJB application that demonstrate working of Session Bean with appropriate business logic. | 10 |
|  | Design an EJB application that demonstrate working of MessageDriven Bean with appropriate business logic. | 10 |
|  | Design an EJB application that demonstrate working of Persistence Bean with appropriate business logic. | 10 |
|  | Read all types of Session Bean life cycle. |  |
|  | What are the characteristics of good software | 6 |
|  | Write a brief note on the following:   1. Instance pooling/caching 2. Transactions 3. Security 4. Timers |  |