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| **Paper Code: HCSCR5112P** | **Internet Technologies**  **(Theory)** | **Marks: 60** |
| **Sl. No.** | **Topic** | **No. of Periods** |
| **Group – A (26 Periods)** | | |
| 1 | **Java :** Use of Objects, Array and ArrayList class | 5 |
| 2 | **JSP :**  Introduction to JavaServer Pages, HTTP and Servlet Basics,  The Problem with Servlets,  The Anatomy of a JSP Page, JSP Processing, JSP Application Design with MVC, Setting Up the JSP Environment, Implicit JSP Objects, Conditional Processing, Displaying Values, Using an expression to Set an Attribute, Declaring Variables and Methods, Error Handling and Debugging, Sharing Data Between JSP Pages, Requests, and Users, Database Access | 17 |
| 3 | **Java Beans:** Java Beans Fundamentals, JAR files, Introspection, Developing a simple Bean. | 4 |
| **Group – B (26 Periods)** | | |
| 1 | **JavaScript:** Data types, operators, functions, control structures, events and event handling, validation through HTML forms, methods. | 16 |
| 2 | **JDBC:** JDBC Fundamentals, Establishing Connectivity and working with connection interface, Working with statements, Creating and Executing SQL Statements. | 10 |
| **Total** | | **52** |
| **Books and References:**   1. Ivan Bayross, Web Enabled Commercial Application Development Using Html, Dhtml,javascript, Perl Cgi , BPB Publications, 2009. 2. Cay Horstmann, BIG Java, Wiley Publication , 3rd Edition., 2009 3. Herbert Schildt , Java 7, The Complete Reference, , 8th Edition, 2009. 4. Jim Keogh ,The Complete Reference J2EE, TMH, , 2002. 5. O'Reilly , Java Server Pages, Hans Bergsten, Third Edition, 2003. | | |

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| **Paper Code: C51P** | **Internet Technologies**  **(Practical)** | **Marks: 40** |