Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj
Master of Science (Computer Applications & Information Technology)
Semester: VIII

Paper Code: CCCS831	Total Credit : 4
Title of Paper: Advanced Java Programming	**Total Marks :** 70 **Time :** 3 Hrs

Unit	Description	Weighting
I	Introduction to J2EE Platform and Architecture The J2EE Platform, The J2EE Architecture Containers, J2EE Technologies, Developing J2EE Applications, Introducing Java Mail and JMS	**20%**
II	Database Programming ODBC and JDBC Drivers, Connecting to Database with the java.sql Package, Using JDBC	**20%**
III	*Servlets* Introduction to Servlets and architecture , Servlet Life Cycle, Servlet based Applications, type of servlet, Servlet and HTML, Session management *JSP* Introduction to JSP, JSP implicit objects, JSP based Applications, Session Management	**20%**
IV	*Remote Method Invocation (RMI)* The RMI Architecture, RMI Exceptions Developing Applications With RMI, Parameter Passing in RMI *XML* XML syntax and semantics, Writing Document Type Definitions (DTDs), XML based applications	**20%**
V	*Java Beans* An overview of Java Beans Requirement, Development and Scope of Java Beans Design consideration and Naming conventions of Java Beans and Guideline. *Enterprise Java Beans (EJB)* Introduction to EJB Entity Beans Session Beans	**20%**
Basic Text & Reference Books :-		
1.	Professional Java Server Programming by Subrahmanyam Allamaraju	
2.	J2EE Bible by Justin Couch and Deniel H. Steinberg	
3.	Professional Java Server Programming Volume I and II, Wrox Publication.	
4.	J2EE Unleashed by Joseph J. Bambara, BPB publications	
5.	Enterprise JAVA J2EE 1.3 complete, BPB publications	

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Unit	Description		Total Marks
I	Q.1 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.1 (B) Medium / Long Questions. (With Internal Option)	08	
II	Q.2 (A) Answer the Following. (Definitions, Blanks, Full Forms, True/False, Match the Following)	06	14
	Q.2 (B) Medium / Long Questions. (With Internal Option)	08	
III	Q.3 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.3 (B) Medium / Long Questions. (With Internal Option)	08	
IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) Programs. (With Internal Option)	08	
V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) Programs. (With Internal Option)	08	